



Technician **Manual**

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1.0 Introduction

Follow the steps outlined in this EyeOn Technician Manual to get your system up and running. Use the Technician Manual and Quick Start Guides to help you through the initial setup process.

Begin the setup process by installing all hardware that is included in your system. Please refer to the manufacturers' specifications and instructions for installing specific subsystems. Some subsystems may require pre-configuration. For example, the JDS Infrared Xpander by default is set for 4800 BPS. This device will not work with the EyeOn server until you switch the jumper. For troubleshooting the Subsystems please contact the manufacturer of the device. ***For each device in your system, refer to the corresponding section of the EyeOn Technician Manual for these requirements.***

After all subsystem hardware is setup and installed properly continue to the Administrator Screen setup. All hardware setup must be complete before you begin setup on the Administrator Screen.

Once all setup is complete the User Screen can be accessed to control your EyeOn automation system. Information on accessing the User Screen can be found in the User Manual.

2.0 EyeOn Server: Quick Start Guide

Before configuring the EyeOn Server, we recommend connecting all subsystem (audio, video, climate, etc.) hardware first. Please read the specific sections of this manual which apply to the devices that are being configured. Some devices require special configuration and will require additional setup

2.1 Accessing the EyeOn Home Administrator Screen

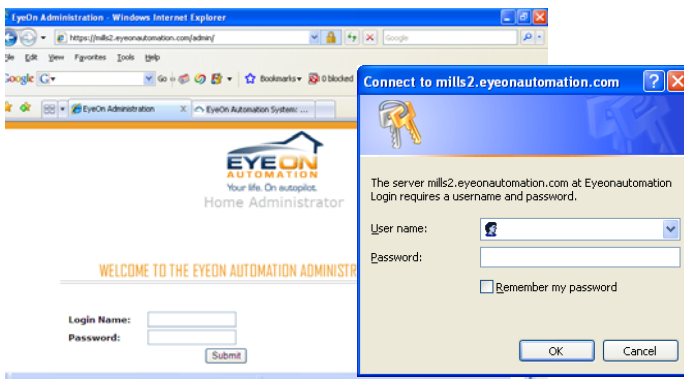
Before getting started with the EyeOn Server setup, temporarily reconfigure the TCP/IP settings on your laptop to be able to communicate directly with the EyeOn Server.

1. Go to **Control Panel**.
2. Double-click the **Network Connections** icon.
3. Right click on **Local Area Connection** icon.
4. Select **Properties**.
5. Highlight **Internet Protocol (TCP/IP)** and click **Properties** button.
6. Write down the current IP settings.
7. Change IP Address to **192.168.130.1**.

Note: *The default gateway may need to be changed to the router's setting.*

Now that the laptop has been configured correctly, let's get started by accessing the **EyeOn Home Administrator** page.

1. Connect a laptop or desktop computer to the router or switch that is connected to the EyeOn Server.
2. Open Internet Explorer. *(To avoid compatibility issues, we strongly recommend using Internet Explorer instead of FireFox).*
3. Type in the EyeOn Server's default address in the browser's address bar:
<http://192.168.130.90/website/admin/> or <https://192.168.130.90/admin>
4. Wait for the following screen to appear and enter the following username and password:



User Name: admin
Password: ^eyeauto!

2.2 Configuring the EyeOn Server

Now that you have navigated to the **EyeOn Home Administrator** screen, start setting up the **EyeOn Server**.

1. Click on the Profile

The screenshot shows the 'Profile' configuration screen in the EyeOn Home Administrator. At the top, it displays 'TESTBOX Unique Name'. Below this, there is a list of subsystems with their current settings and a 'Next' button at the bottom right.

Subsystem	Current Setting
House Name	TEST BOX
Audio System	Russound CAM6.6/CAV6.6
Tuner	2 Controller
Tuner 2	Russound ST2-XM Tuner
Media Server	No Tuner
CD/DVD Player	No Media Server
Video	Integra DCP 8.5
Security	FatBoy HD Video System
Climate Control	2 Units
Surveillance	ELK Security System
Lighting	30 Zones
IR	17-208 Onboard Expression M1XOVR
IR Send	7-16 M1RB_Relay_Board
UPS	TR40 Climate System
Pool/Spa	32 HVAC Controller
Touch Screens	PC DVR
Intercom	Insteon SwitchLink V2 Lighting
Access Control	No IR
Server Version	1 Unit

2. Use the drop-down boxes to choose the correct model number for each subsystem.

3. Click the **Next button at the bottom the screen to save changes.**

Notice that the **Profile** screen also displays the default Unique Name. The Unique Name is a distinct identifier (in this case, TESTBOX) for remotely accessing the system, so that <https://testbox.eyeonautomation.com> can be entered to log on to your EyeOn server. The Unique Name cannot be edited from this screen. If the preconfigured name is not preferred, refer to the Customer Resource Center for details about how to customize the Unique Name.

Note: This unique URL will not work on the local network until the router has been configured correctly. Please see the “About Router Setup” section below for details.

2.3 Activating the Subsystem Links

Once the **Profile** screen has been configured, the server must be updated by performing the following steps:

1. Click on the **Setup** link.
2. Click the **Update Server** button.
3. Click the **Event Log** link.
4. Click **Detect Hardware** link.

Since this is the first time the server will be detecting the hardware, this process can take up to 20 minutes. Once all hardware is detected, future boot times should be anywhere from 2 to 5 minutes.

EyeOn recommends that a monitor be connected to the **EyeOn Server** to watch for errors as they occur, but the Installer also has access to this data via the **Event Log** link. If any hardware has not been detected, an error message will appear in the **Event Log**. It is very important to check for errors in the **Event Log** when making changes to the system. Make sure all hardware is detected and running before proceeding to the next section. If a subsystem is not responding please refer to this **EyeOn Technician Manual** for help with troubleshooting.

2.4 Configuring the Subsystems

Now that the hardware has been detected, the **Rooms** link should be configured. Enter in the name of each room that contains a touch screen or a subsystem device; also enter a number for the sort feature. We recommend using increments of five (5) so as to leave space to add additional rooms later.

The subsystem links (Audio, Video, Security, etc.) should be active.

1. Click on the first active subsystem (i.e. Audio)
2. Use the drop-down and text boxes to configure the details about that subsystem. (*Refer to User's Manual and Technician Manual for more details.*)
3. Hit the **Next** button to save these changes.
4. Repeat Steps 1-3 until all subsystems have been configured.
5. Click the **Setup** link.
6. Click the **Update Server** button.
7. Click the **Soft Server Reboot** button.
8. The **System Status** will display a reboot time ranging from 1 to 59 seconds.
9. Wait until this time has expired, then click the **Setup** link to update the **System Status**.
10. If **System Status** is **Running**, the system is ready. If not, click the **Setup** link periodically until the **System Status** shows **Running**.

Here is a list of all of the available **System Statuses** and their meaning:

- **Running – The system is running and should be operational.**
- **Not Running – This normally means a Soft Server Reboot was started. The system should start up within one minute.**
- **Soft Reboot – A Soft Server reboot has just completed.**
- **Detecting Hardware – The system is starting up. It is going through and finding all hardware attached to the EyeOn Server (Check the Event Log for current status).**

Important! The Administrator screen setup must be complete before the User's webpage will function correctly.

2.5 More about the Setup screen

Though there are several settings under this category, only configure a Username and Password to get started (refer to the **EyeOn Technician Manual** for details about the remaining options). The purpose of this setting is to give the home owner their own username and password for remotely accessing the **EyeOn User Screen**. This username will only allow the end-user to access the **EyeOn User Screen**, it will *not* allow them access to the **EyeOn Home Administrator Screen**. (For the installer's convenience, the administrator's password will give the installer access to both the **EyeOn User Screen** and **EyeOn Home Administrator Screen**.)

System Setup - (System Status: **Running**)

<input type="text"/>	<input type="button" value="Update"/>	Doorbell Volume (1 highest-78 DB 50)
<input type="text"/>	<input type="button" value="Update"/>	Announcement Volume (1 highest-78 DB 50)
None		First Doorbell Source
On	<input type="button" value="Update"/>	Allow Moods
On	<input type="button" value="Update"/>	Allow Internet Browser on Touch Screen
Central	<input type="button" value="Update"/>	Time Zone
hitcents		HTTP User Name
.....		Password
.....		Confirm Password
<input type="button" value="Save Password"/>		
		Longitude
		Latitude
<input type="button" value="Save Land L"/>		

Sunrise: 06:32 Sunset: 19:06

[\[Sub User Manager\]](#)
[\[Event Log\]](#)
[\[Generate Cisco Code\]](#)

<input type="button" value="Update Server"/>	<input type="button" value="Soft Server Reboot"/>		
<input type="button" value="Screen Reboot"/>	<input type="button" value="Screen Off"/>	<input type="button" value="Screen On"/>	<input type="button" value="Screen Force Update"/>
<input type="button" value="Change IP"/>	<input type="button" value="Change Password"/>	<input type="button" value="Server Reboot"/>	

Near the bottom of the **Setup** page, there are several buttons related to updating and rebooting the server and touch screens. If you have added or changed devices in the **Profile** screen, you must click the **Update Server** button and **Soft Server Reboot** for any changes to be recognized. The **Hardware Detection** link, within the **Event Log**, is used to make sure the hardware is registering with the server. At this point, unless you use the **Profile** screen to make changes to the hardware that is already configured and detected, there should be no need to **Detect Hardware** again.

If changes are made to any category, other than **Profile**, click the **Update Server** button followed by clicking the **Soft Server Reboot** button. When a **Soft Server Reboot** is performed, the server will stop responding for up to 59 seconds. Subsequently, the touch screen will also reboot with the new configuration changes.

Warning! *Performing a Soft Server Reboot will cancel all commands. For example if you are programming lights while you hit Soft Server Reboot the programming process will be canceled.*

Important! *Even though the server has booted up, it may NOT be finished detecting all of the hardware. Click the Event Log link and refresh the Event Log page to update the status.*

2.6 About Router Setup

We recommend using a Cisco Router or a SonicWall when setting up your router. If a standard router is being used instead, port forwarding will need to be used. Refer to the **Technician Manual** for more details about this subject.

It's very important to understand that if a Cisco or SonicWall is not used, you will not be able to access your system using the unique URL through your local network. It will only be accessible from outside the home. To gain access from inside your home, you need to use the IP Address <http://192.168.130.90/website/admin/> or <https://192.168.130.90/admin/> that was mentioned earlier in the **Accessing the EyeOn Home Administrator Screen**. Using the internal IP on the local network will cause the system to have limited functionality (see **About Limited Functionality** below). If a Cisco router is being used, please refer to the **Configuring Cisco Router** section of the **EyeOn Technician Manual** for setup instructions.

Note: *If the local network has a DNS server the Cisco router or SonicWall will not be necessary. When the system is connected to the internet it will use a Dynamic DNS server to update the URL and IP address.*

2.7 About Limited Functionality

If you must use the private IP (192.168.130.90) to access your EyeOn User System from inside your house, you will have limited functionality. The following limitations will only occur with the Surveillance System and SSL certificate:

- You will see a security warning stating that your SSL Certificate is not valid. This does not mean that your site is not secure; it just means the name does not match the internal IP address. This warning will not cause your system to run incorrectly.
- When using the Camera Button on the EyeOn User screen; the View or Recorded videos will not be accessible. To access these screens you will be required go to the private IP address of the Surveillance DVR manually.
- If any events have been configured to send pictures to your e-mail address, you will not be able to access these pictures while on your local network (you will see a red X in its place).

2.8 About User Website Access

Accessing the EyeOn system remotely is an important feature of the EyeOn Automation system. This can be achieved using the unique URL that was created for your system.

If the router is not setup the default IP address is <http://192.168.130.90/website/> or <https://192.168.130.90/>. However, this will only allow you to access the User Website and Administrator setup options from your Local Area Network.

To access the **EyeOn Home Administrator** screen, the IP address on the laptop may need to be changed to the local subnet. For more details about changing this IP address please see the **Changing Computer IP Address** document.

Note: *Administrator Screen setup must be complete before the User website can be accessed.*

The end-user's username and password can be created and managed through the **Setup** link on the **EyeOn Home Administrator** screen. This username and password will only work when logging on to the **EyeOn User Screen** and will not grant access to the **EyeOn Home Administrator** screen; however, the Administrator's username and password will have access to both the **EyeOn User** and **EyeOn Home Administrator** screen.



For more help with the **EyeOn User Screen**, refer to the **EyeOn User Manual**.

3.0 EyeOn Touch Screen: Quick Start Guide

3.1 Introduction

The EyeOn Touch Screen is the perfect compliment to the EyeOn Automation Server and gives the homeowner convenient access to all of the functionality EyeOn Automation has to offer. With our touch screen, the homeowner will have convenient control over lighting, whole-house audio, video distribution, climate control, surveillance, and security systems, just to mention a few.

The EyeOn Touch Screen is easy to install and, unlike other touch screens, doesn't require the installer to design and configure the screens and buttons that are necessary to access the subsystems. Simply configure the companion EyeOn Server with the correct subsystems and EyeOn does the rest.

Your new EyeOn Touch Screen is a low-voltage device requiring a 24VDC power supply. It is designed and programmed to work seamlessly with the EyeOn Server via a standard Ethernet connection. The following sections describe the requirements for connecting the EyeOn Touch Screen to the EyeOn Server.

3.2 Pre-Installation requirements

Before installing the EyeOn Touch Screen, carefully choose the mounting location (see pg 4), then run the following cables to the mounting location from the Ethernet router (or switch) and power supply.

- 16-gauge/3-conductor Cable for 24VDC Power
- Category-5 or Category-6 Cable for Ethernet communication

Note: *EyeOn recommends adding, at most, a 3-amp inline fuse between the positive terminals of the touch screen and 24VDC power supply. (Refer to the EyeOn Resource Center for more details about power and communication requirements.)*

3.3 Changing Touch Screen IP Address

If more than one touch screen will be installed, EyeOn strongly recommends that the extra touch screens be configured with unique IP addresses before delivering them to the installation site. Performing this step beforehand will eliminate the need to remove the touch screen from the wall after it has been installed, lowering the risk of damaging a finished wall.

Note: *The default IP address is 192.168.130.151. EyeOn recommends configuring the subsequent touch screens as 152, 153, 154, etc. No two touch screens should have the same IP address as this will cause problems with your local network.*

There are two methods for changing the IP address:

1. EyeOn Touch Screen not Connected to an EyeOn Server
2. EyeOn Touch Screen Connected to an EyeOn Server: Screen Lock keypad or Security Menu keypad

A USB keyboard must be connected to the EyeOn Touch Screen to configure the IP address.

3.3.1 Method 1: EyeOn Touch Screen not Connected to an EyeOn Server

Applying power to the EyeOn Touch Screen before connecting it to an EyeOn Server will result in the following error message:

***EyeOn could not connect to the server, would you like to change your IP settings?
'Yes' 'No'***

Please select 'Yes' and the **Settings** menu will appear.

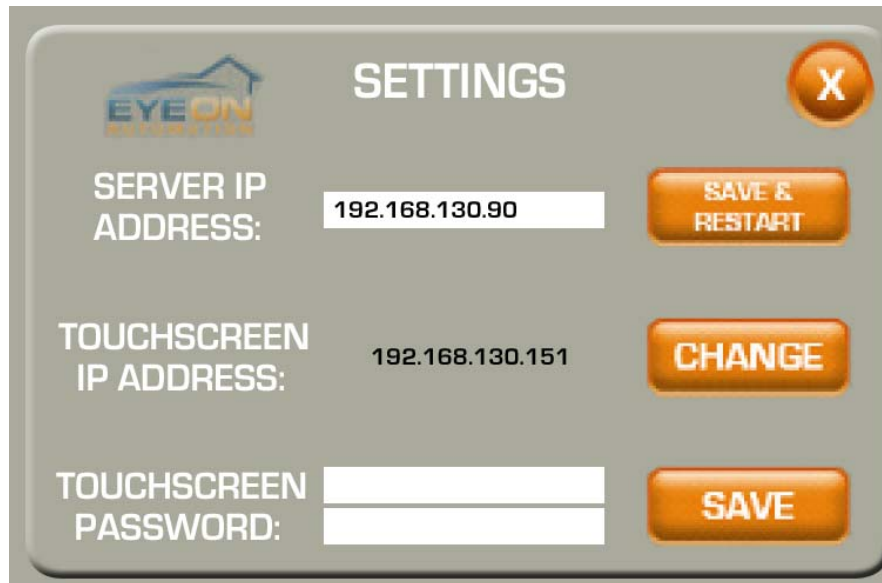


Figure 1

To change the touch screen IP address:

1. Select the Change button (you will redirected to the Control Panel)
2. Navigate to Network Connections and double click on the icon
3. Right click on the Local Area Network icon
4. Select the Properties option
5. Double click Internet Protocol (TCP/IP)

The Internet Protocol Properties window (Figure 2) will appear allowing the updated IP address to be entered.

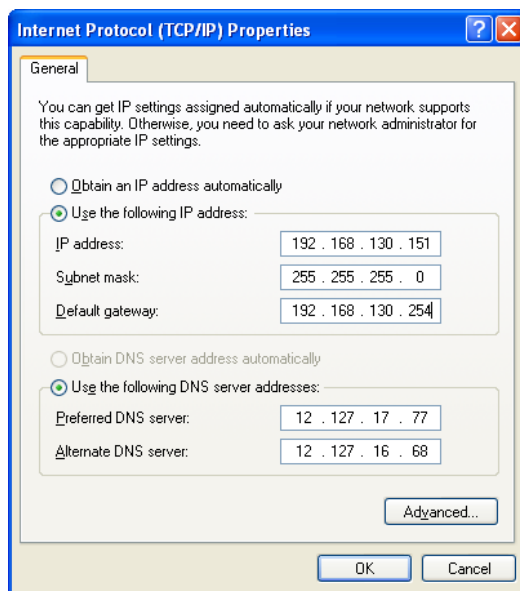


Figure 2

3.3.2 Method 2: EyeOn Touch Screen Connected to an EyeOn Server

The Control Panel can also be accessed from the EyeOn Touch Screen's interface by using the Screen-Lock keypad or the Security keypad. Once either has been evoked, simply type **039366** to access a "hidden" menu (Figure 3).



Figure 3

Select the **Settings** button to display the **Settings** screen as shown in Figure 1.

3.4 Choosing a mounting location

Before starting, there are a few things to take into consideration when choosing a location for the EyeOn Touch Screen:

- Do not install the unit in a location that will expose it to direct sunlight at any part of the day.
- Avoid contamination from insulation by installing touch screens in non-insulated interior walls.
- Consult a licensed electrician to determine if a particular location is safe and in compliance with state and local electrical codes.

Caution! Consult the end-user to determine their preference before finalizing the mounting locations. We recommend centering the touch screen at 56 ¾" AFF (above finished floor). At this height, the bottom of the touch screen will be exactly 53" AFF.

3.5 Preparing the surface

Once a suitable mounting location has been chosen, use the wall mount as a template to mark the location that will be cut out of the mounting surface.

Important! Drywall retainers may affect proper leveling, use a magnetic level along the front or back edge of the bracket and not the center.



Figure 4

3.6 Mounting the touch screen's wall bracket

Once the hole has been cut, slide the bracket into the opening with the notched side of the bracket facing down. If there are no adjacent studs, bend the metal tabs along the sides of the bracket to secure it into position. The tabs will hold the bracket in place. If one side of the cut-out is adjacent to a stud, the bracket may also be secured using the oblong holes that are located on either side of the bracket.

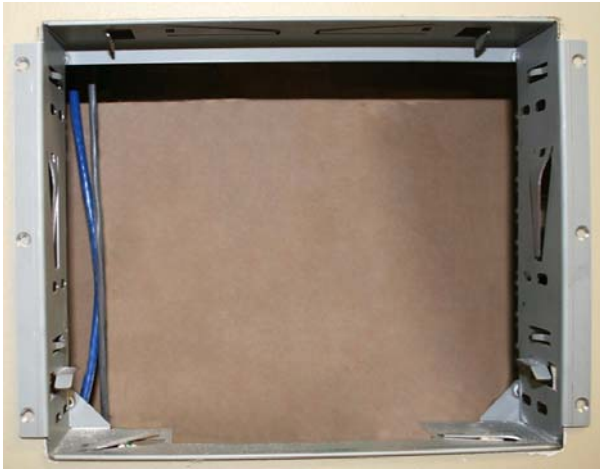


Figure 5

3.7 Terminations

Before terminating the communication and power cables, take a moment to get familiarized with the connection points on the touch screen, shown in Figure 6.



Figure 6

1. Start by crimping a connector onto the Ethernet cable. Performing this step first is very important, since it won't be able to set the touch screen aside once the power has been connected.

Note: EyeOn recommends using the T568-B or T568-A standard. (Note that this wiring standard must also be used at the switch or router.)

2. Prepare the 16-gauge/3-conductor power cable by stripping away 1.25" of the outer insulation.
3. Next, strip 1/4" inch of insulation from each wire.

4. After ensuring that each terminal has been loosened enough to accommodate the wire, insert and secure each wire into the touch screen's terminal block, as seen in Figure 7.
5. Tug each wire after they are tightened to insure that they are secure.



Figure 7

6. Insert the Ethernet connector into the touch screen's Ethernet port (shown in Figure 6).

3.8 Mounting the touch screen

Attach the power and the network connections that were discussed in the previous section.



Figure 8

Slide the touch screen into the wall taking care to only put pressure along the border of the touch screen and not the display surface. (Figure 8)

Congratulations, the touch screen setup is now complete and ready to be tested.

3.9 Remote Access

The EyeOn Touch Screen is accessible through Windows Remote Desktop. To access the touch screen remotely follow these steps:

1. From the **Start** menu select **Run**.
2. Type in **mstsc.exe** then hit Enter.

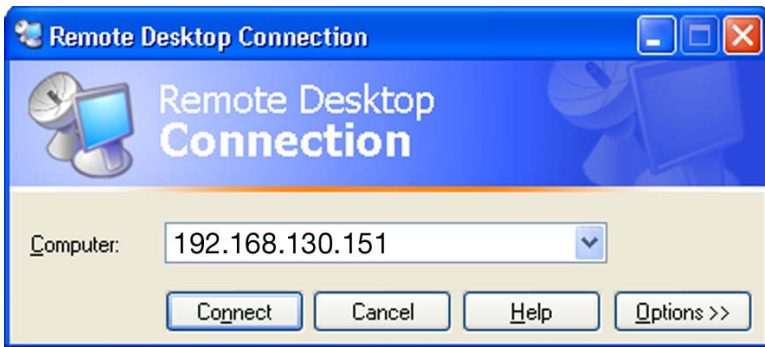


Figure 9

You will be prompted to enter the IP address of the touch screen you want to access remotely. After you hit **Connect** enter the **Username** and **Password** below.

Username: Administrator

Password: ^eyeauto!

Caution! EyeOn strongly recommends restarting the touch screen after remotely accessing it, in order to avoid inconveniencing the customer.

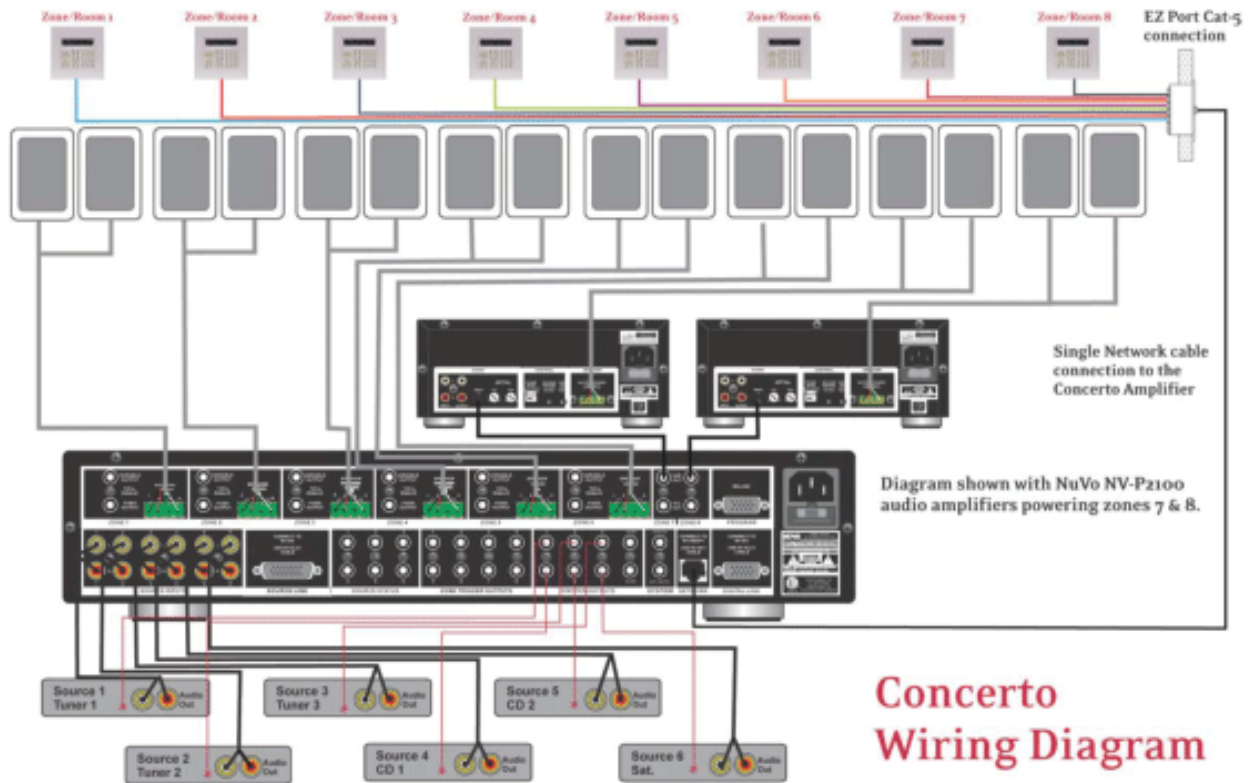
4.0 EyeOn Hardware Setup

4.1 AUDIO: Nuvo Concerto and Grand Concerto System (010001)

The following information is only meant to supplement the manufacturer's documentation and is based on the assumption that the Installer is already familiar with installing and configuring the Nuvo Concerto, Grand Concerto, and keypads:

4.1.1 System Overview

The following diagram is a great illustration of a fully functional system. It includes the maximum number of audio sources, keypads, and speakers as well as the supplemental amps that are needed to amplify Zones 7 and 8, which are not amplified by the main unit. (This diagram does not include the Concerto Expander, which expands the main unit by eight zones. Refer to the Nuvo Installer and Owner's manual for further details.)



4.1.2 Configuring the Nuvo Concerto and Grand Concerto

At times, depending on the requirements of the end-user, the Installer must configure some of the Concerto's settings to allow the EyeOn software to fully exploit the functionality of the Concerto. Here is a quick tutorial (with EyeOn related tips) about using the Nuvo Concerto Configurator software

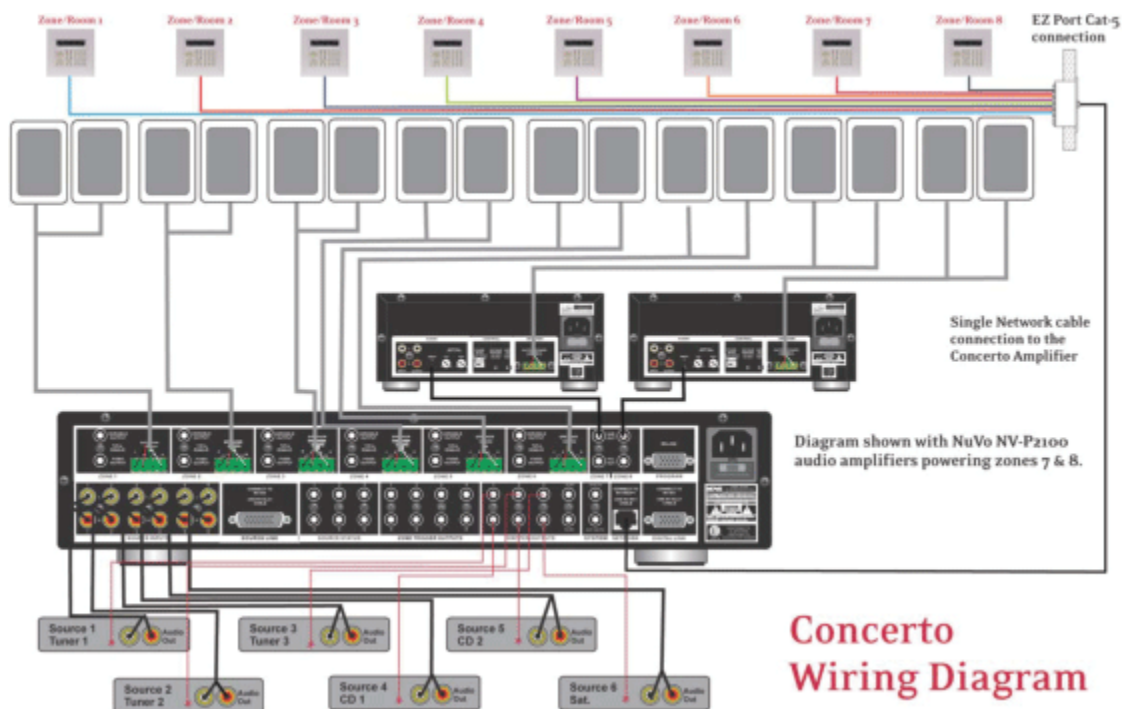
- The Nuvo Concerto audio system requires internal programming for the system to work with the EyeOn Server.

4.1.3 Suggestions

- First, you will have to know which rooms in the house have speakers. If you have one area that is close together sometimes it is better to combine four speakers into one zone, but never more than four.
- You should have all the wires labeled for each room.
- Remove the green terminals from the back of the Concerto Unit.
- You can screw one or two wires in each slot in the terminal block.
- If you have over more than eight zones you must use the Concerto Expander.
- These two units are very simple to link together, simply follow the instructions with the unit.
- You need to install the Nuvo software on your PC. The PC must have .Net 1.1 and a RS232 port. You should install version 1.6 then upgrade to 1.71. The upgrade is on the CD.
- There will also be six sources that come into the Nuvo unit. To take advantage of the EyeOn doorbell and voice feedback system you must plug source six into the output of the server. You will use a Stereo Mini (1/8") Male to Two RCA.

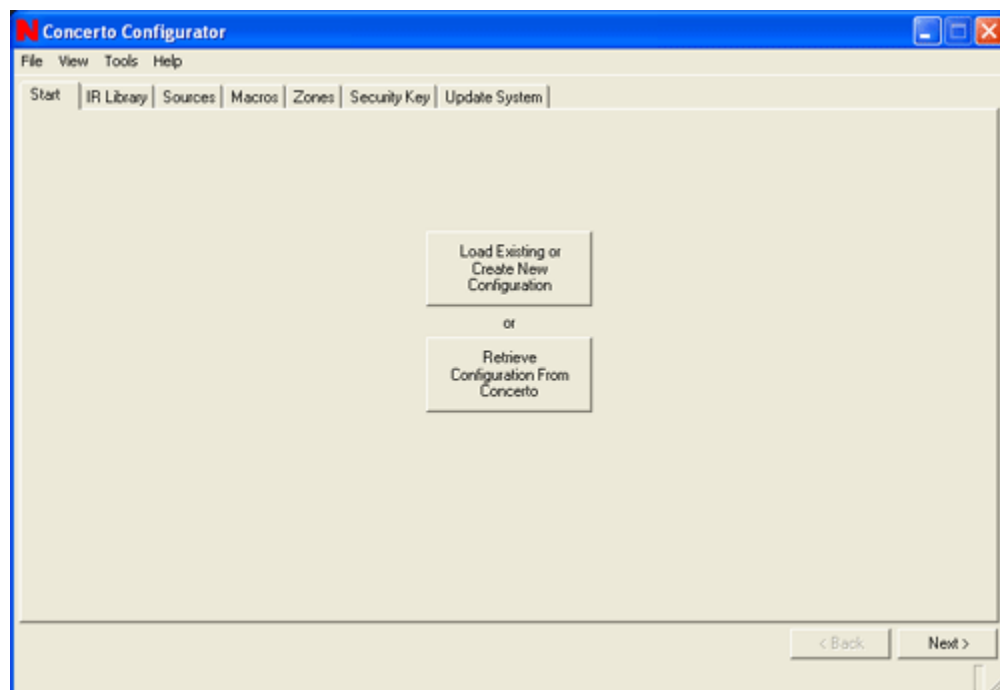


- You will need to know where the other five sources are coming from, i.e. XM Tuner, FM/AM/WX Tuner, CD Player, to set the sources in the Nuvo software.
- If you are using zone seven or eight you will need to use another AMP to power these. Sometime we will use zones seven or eight to power another receiver in another room. For example, if you have a room surround sound system you can use zone seven with another Stereo Mini (1/8") Male to Two RCA cable to put into input two. This way the home owner can switch to input two on their room receiver and hear anything from the sound system that is being played on Zone seven. A lot of times we will set Zone seven up as a slave to a near by zone so you can use the control panel from the near by room to change the source you are listening to.



After you have decided how you are going to have the system laid out you will need to download the Nuvo desktop software to your computer. Download Version 1.6 by using your EyeOn Technician CD with filename Concerto_V1_60_Full.zip.

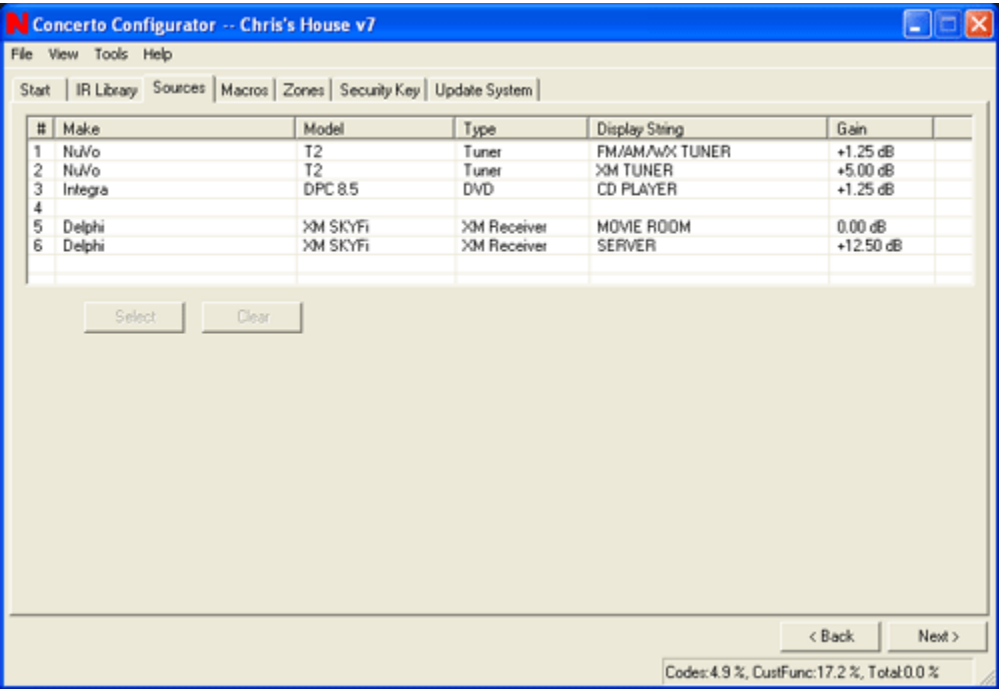
To begin, you will have to create a new configuration or if you have already started one you can load an existing file.



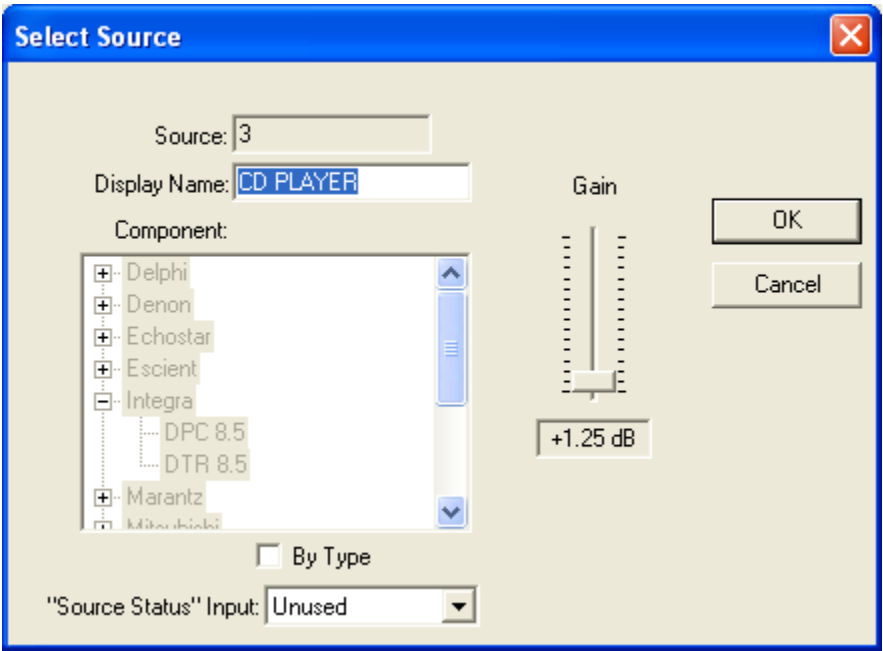
The IR Library section is used to control other devices that might be linked as a source on the Nuvo, for example, a CD player. You will only have to set this section up if you want the Nuvo keypads to

control that source. If you have no keypads then you can skip this step. (More information for setting up IR devices is located in the Integra DPC-8.5 section on page 30.)

Use the Source section to set up your sources. If you are using the EyeOn system as an intercom, doorbell, or for audio feedback Source 6 should be set to Intercom System. The Model and Type are just generic.



If you are using a CD or DVD device, you can add this to the system by selecting the make and model. For example, if you had an Integra DPC 8.5 you would use the following: Make sure if you are using the Integra that you use the IR code that is already created for you on the CD.



(Notice the gain, some devices put out less output than others. You can use this to have Nuvo broadcast the source at a louder volume.)

If you are using the server intercom system, please set source 6's gain to +12.50.

If you are using a FM/AM/WX tuner, we recommend using +1.25.

If you are using a XM tuner, we recommend using +4.00.

If you are using the DPC 8.5, we recommend using +1.25.

If you want to utilize Macros, please see the Nuvo Concerto Owner's manual.

Please set up the Zones that are used throughout the house. Each zone should be the name of the room the speakers are placed in.

When setting up each Zone, enter the name of the room the speakers are placed in. Please make sure that Volume Reset at Zone On, Loudness compensation On, and Open source control are all checked to on. If these options are not selected it is possible that the Audio System will not function correctly. If you are using IR distribution though out the house and want to make each keypad an IR receiver then uncheck the disable IR boxes. All sources should be enabled.

Edit Zone Properties

Description: Slave To:

Max Volume: Balance: Bass EQ: Treble EQ: Initial Volume:

☐ Auto-blank display after no activity for 20 seconds
☒ Volume Reset at Zone ON
☒ Loudness compensation ON
☒ Open source control
☐ Disable All IR
☐ Disable Passthrough IR
☐ Security Code Lock to enable MASTER mode
☐ Security Code Lock to enable advanced MENU options

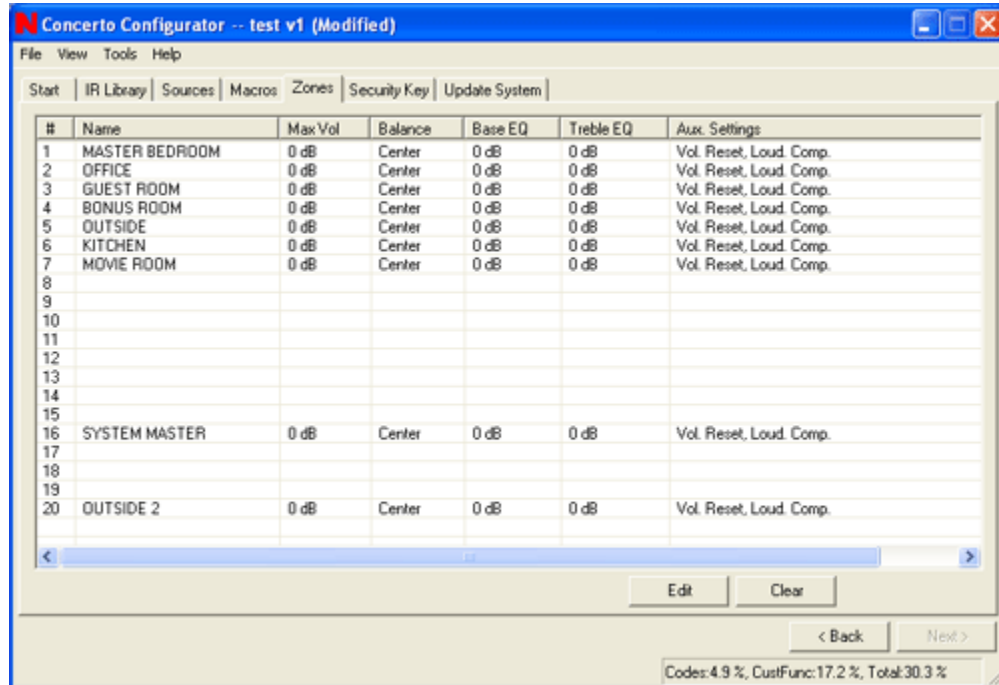
Source Grouping
☐ Group 1 ☐ Group 3
☐ Group 2 ☐ Group 4

Enabled Sources
☒ Source 1 ☒ Source 4
☒ Source 2 ☒ Source 5
☒ Source 3 ☒ Source 6

OK Cancel

If you are using keypads the first time the Concerto is turned on, it will ask you what zone should be assigned. Please match the zones you set on the keypads with the appropriate room. If you choose the wrong zone number you can change this by holding the *menu* and *up/down volume* buttons at the same time. It is best to set up the Zones before you turn on the keypads.

Example 1: (pictured below) If you are using the Audio feedback or doorbell you must use Zone 16 for the System Master take over for the intercom. Make zone 16 only have access to source 6. Here zones 1-6 are normal zones, zone seven is output to the input of a home receiver in another room and a slave of zone six, which is a near by room. Zone 16 is the system master, 20 is a slave zone to Outside (Zone 5). Two controllers are used, one inside and one out, both serving the same functions (Zone 5 and 20).



After finishing the zone setup, you can now update the Nuvo Concerto system.

For advanced diagnostics you can view the Nuvo Concerto RS232 PDF document on your EyeOn Technician CD to get a list of the RS232 protocols. This device connects at 9600 BPS 8-N-1.

If you are using the Audio feedback or doorbell you must use Zone 16 for the System Master to take over for the intercom. Create zone 17 and only allow access to source 6.

4.2 AUDIO: Russound System (010003)

The Russound audio system does not require internal programming for the system to work with the EyeOn Server. You will have to know which rooms in the house have speakers to program the EyeOn administration screen. If you have one set of speakers that will be installed in close proximity to another, it is better to group these four speakers into one zone. This grouping can be achieved by connecting two of the speakers to the left channel and the other two to the right channel, limited to a maximum of four speakers per zone to avoid overheating of the amplifier. Also, the manufacturer recommends that no more than three zones should have two sets of speakers attached to their output (Check Russound Specs for exact detail on grouping). In order to ease final termination of the amplifier outputs, it is best that all wires are labeled for each room.

If you have more than one Russound controller you will need to setup the controller ID. By default they are all set to 1. You will need to adjust each controller in order; 1,2,3,4,5,6.

Before attempting to communicate with the EyeOn server, check that the dip switch next to the RS232 port is in the middle position (RUN). In addition, any other compatible Russound controllers will need to be connected to the RNET RJ45 port.

If the CAV model is installed, be aware that it does not have a built-in tuner so just disregard this setting in the Source setup on the Admin screen. When configuring the tuners make sure the tuner number refers to the source number. For example if you setup the FM/AM on Source #1 you must also setup the tuner for Tuner #1. This method is Russound's standard setup. Also on the CAV, *make sure* the switch in the front of the unit is in the front or rear position for the RS232 port, depending on what port you are using.

If the doorbell or whole-house paging option is desired, take note that these options are not available with the CAM6.6, given that the CAM6.6 does not include a paging port.

If the announcement option is configured, make sure each zone is tested for sufficient loudness. A good starting point is 40% volume.

If using the CAV model and the doorbell feature is desired, the paging control input needs to be excited with a 12VDC trigger. This voltage will need to be controlled through an isolated relay on the ELK security system or PLC output. To setup this EyeOn option, locate the output under the Security Admin Screen and the Announcement option in the drop down. This setting will cause the relay to activate when the doorbell is pressed and deactivate once the doorbell tone finishes playing (duration depends on length of WAV file chosen for custom doorbell sound).

Be aware that for the **All** commands to work you must have Party Mood enabled. This is enabled by default.

There are a total of six source inputs available on the Russound unit. In order to take advantage of the EyeOn doorbell and voice feedback system, connect the speaker output of the EyeOn server to a source on the Russound (Source 6 is recommended). To make this connection, use a stereo mini (1/8") Male to two RCA male connectors. Another Y-cable, female RCA to two male RCA, will be needed to feed this audio source to the Paging Audio In input. To achieve this purpose, connect the right side of the incoming audio cable on Source #6 to the female input of the Y-cable, connect one of the male ends to the Source #6 Audio In, and connect the other male end to Paging Audio In. This procedure results in Source #6 being used for room feedback while the Paging Audio In will be used for doorbell and whole-house feedback.

To change the follow these steps:

Display Preference Mode (3.DSPLY PREF)

This mode allows you to choose how XM channel information will be displayed on the keypad and tuner. Appropriate button presses access the next or previous preference item.

Note: For any display configuration, the artist's name and song title will scroll before the display returns to the designated display format.

Channel Number (CH NUMBER:)

This selection displays the channel number only (e.g., XM070, XM103).

Channel Name (CH NAME:)

This selection displays the channel name only (e.g., ESPN Radio, Real Jazz).

Channel Number and Name (#:CH NAME:)

This selection displays the channel number and name (e.g., 64:The Groove, 121:Fox News).

4.3 AUDIO: Nuvo T2 Tuner (020001 - 020003)

The Nuvo T2 Tuner is available in three types:

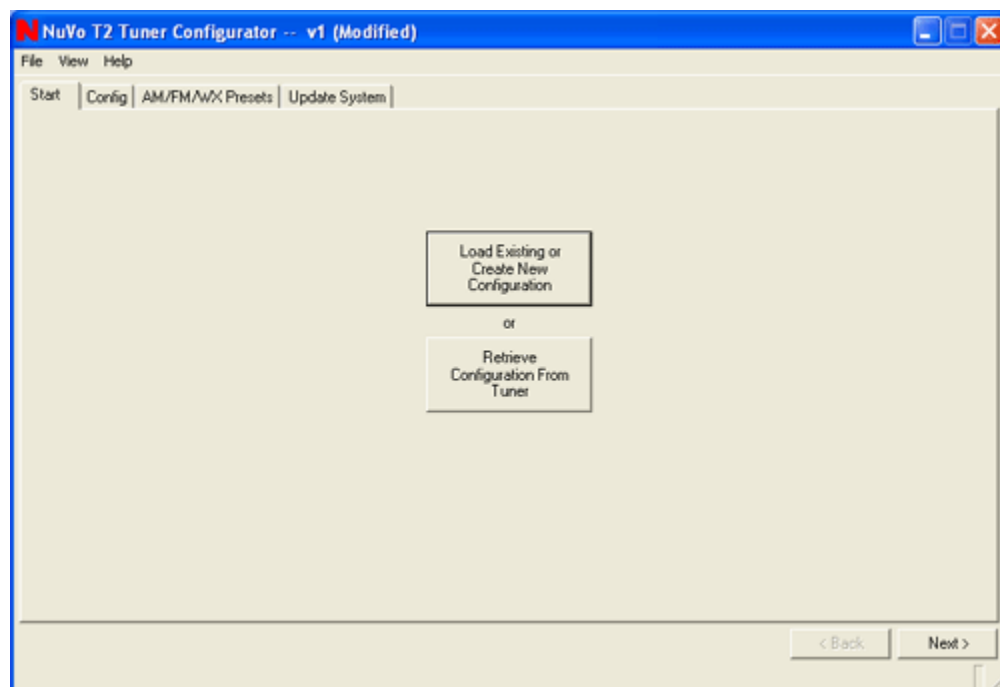
Dual FM/AM/WX - NV-T2DF (020001)

Dual XM - NV-T2DX (020002)

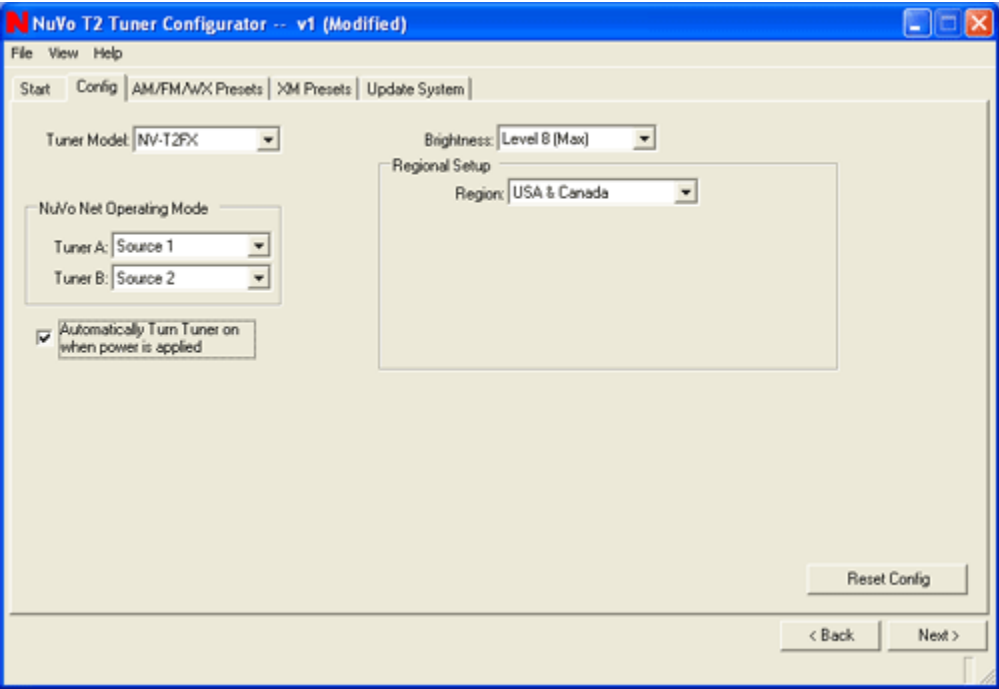
FM/AM/WX - XM Tuner - NV-T2FX (020003)

Caution! If you are using one of the new T2G tuners for the Grande Concerto you will need to downgrade it with T2G_Conversion.zip on the CD.

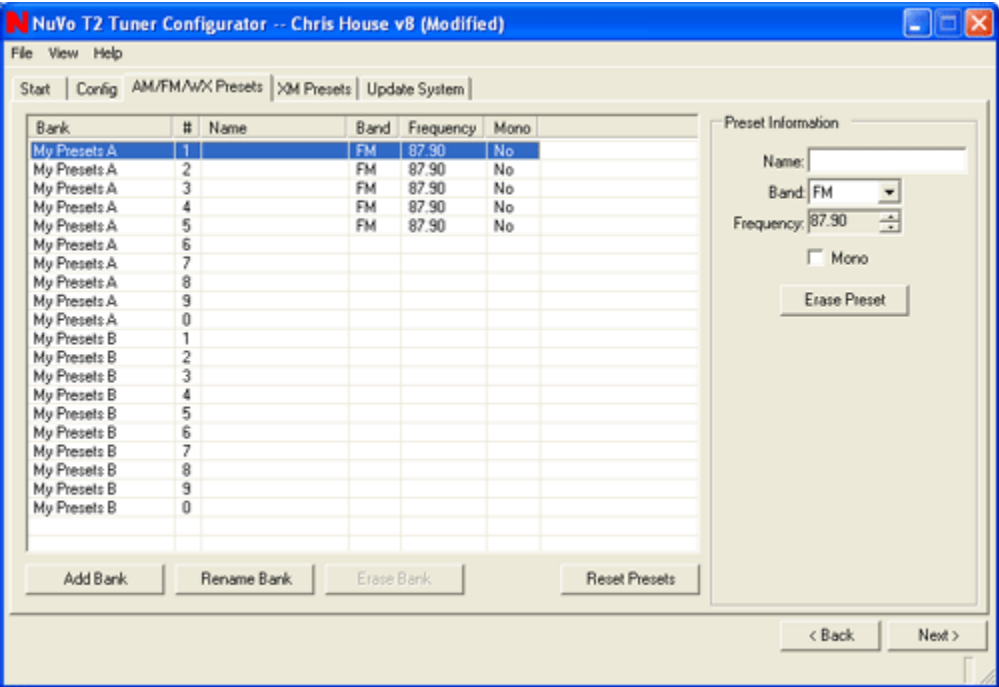
You will start with a screen similar to the Nuvo Concerto screen, then choose to load an existing or to create a new configuration.



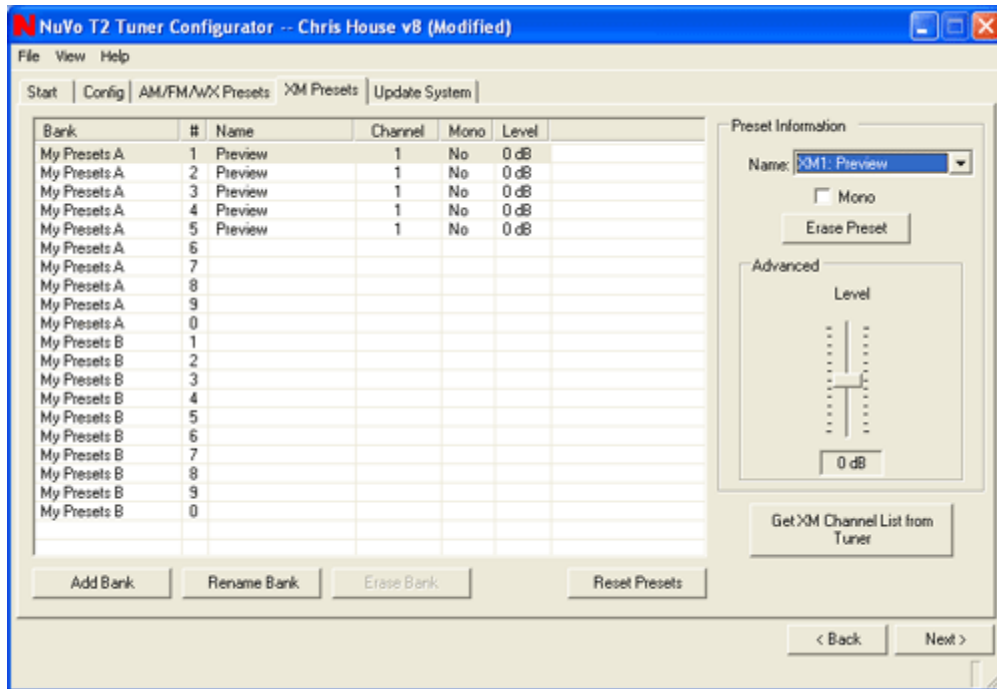
From here, you will be on the Configurator screen where you will need to select which Nuvo device you have. Below is an example of what this setup screen could look like. You must specify what source the tuners are hooked to. We also recommend using the “Automatically Turn Tuner On when power is applied” checkbox.



All presets will be setup from the EyeOn web-based software. To do this, you must first set the presets to a default station. For the FM/AM/WX presets, you should set up the name as a space and just leave it on 87.90. You only have to do the first five for each tuner, as that is all the user is currently allowed to specify.



For the XM tuner, you should simply setup the presets for XM1.

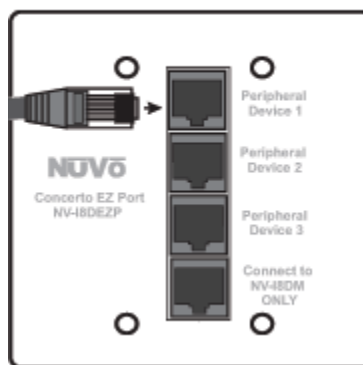


At this time, it is good to save the configure file somewhere so you can work on it later as needed.

You will need to download the information into the tuner. If you have an error message while doing this try power cycling the tuner. Also try just doing side A then side B one at a time.

After you have finished the installation, there is one more necessary step for the Concerto system to communicate with the T2 tuner. You must run a Cat5 cable from the back of the T2 tuner to the EZ Port Cat-5 Connector.

EZ Port (front)



For advanced diagnostics, you can view Nuvo NV-T2DF RS232 PDF document on your EyeOn Technician CD to get a list of the RS232 protocols for the NV-T2DF. This device connects at 9600 8-N-1.

4.4 AUDIO: Integra DPC 8.5 (030001)

There is no software to communicate with the Integra DPC-8.5, six-disk DVD player. All that is needed for the EyeOn system to communicate with this device is to plug it into the server with a RS232 cord. If you are using any of the supplied Nuvo keypads, you must program in the IR commands to give the keypad the ability to start, stop, skip, etc.

To view the DPC-8.5 Owner's manual use your EyeOn Technician CD to view the file DPC85.

4.4.1 IR Setup from Nuvo Keypad control

Again if you are not using any of the Nuvo keypads you do not need to do this. The touch screen will control this device with the RS232 commands. If you are using Nuvo keypads, you can grab the Integra IR file off of the CD and put it into your Concerto IR Library (c:\program files\Nuvo\Concerto\Library) Then you must delete the source for the CD player and add it again. Setup all the macros. Make sure you have an IR cable from the Concerto and the CD Play IR In. Test!

If this is a new CD player you need to use the Nuvo Concerto software to add these IR commands into the system. You will have to have a Nuvo Concerto IR Learning Station to perform the following steps.

Plug rs232 from learning kit to laptop. Make new device and model. Keep default on IR code. Learn in each code. Then go back to Concerto and delete the source if it is already added. Then add the source and setup the macros. Make sure you have an IR cable from the Concerto and the CD Play IR In. Test!

For advanced diagnostics you can view file Integra DPC 8-5 RS232 on your EyeOn Technician CD to get a list of the RS232 protocols. This device connects at 9600 BPS 8-N-1.

In the past we have had many DPC DVD players start to skip, pause on their own, etc. This is not caused by IR or RS232 commands. This is a problem with the DVD player. Send back DVD player for new one.

4.4.2 Resetting DVD player

Try resetting the unit by holding down the stop button on the player (not the remote) and the standby/on button at the same time. The display should read INITIALIZE and when it's done it will read COMPLETE.

4.4.3 EyeOn Remote IR Code

The DVD IR code for the EyeOn remote is 025. Look at the remote setup for more information

4.5 MEDIA SERVER: Dell Optiplex 755 (130001)

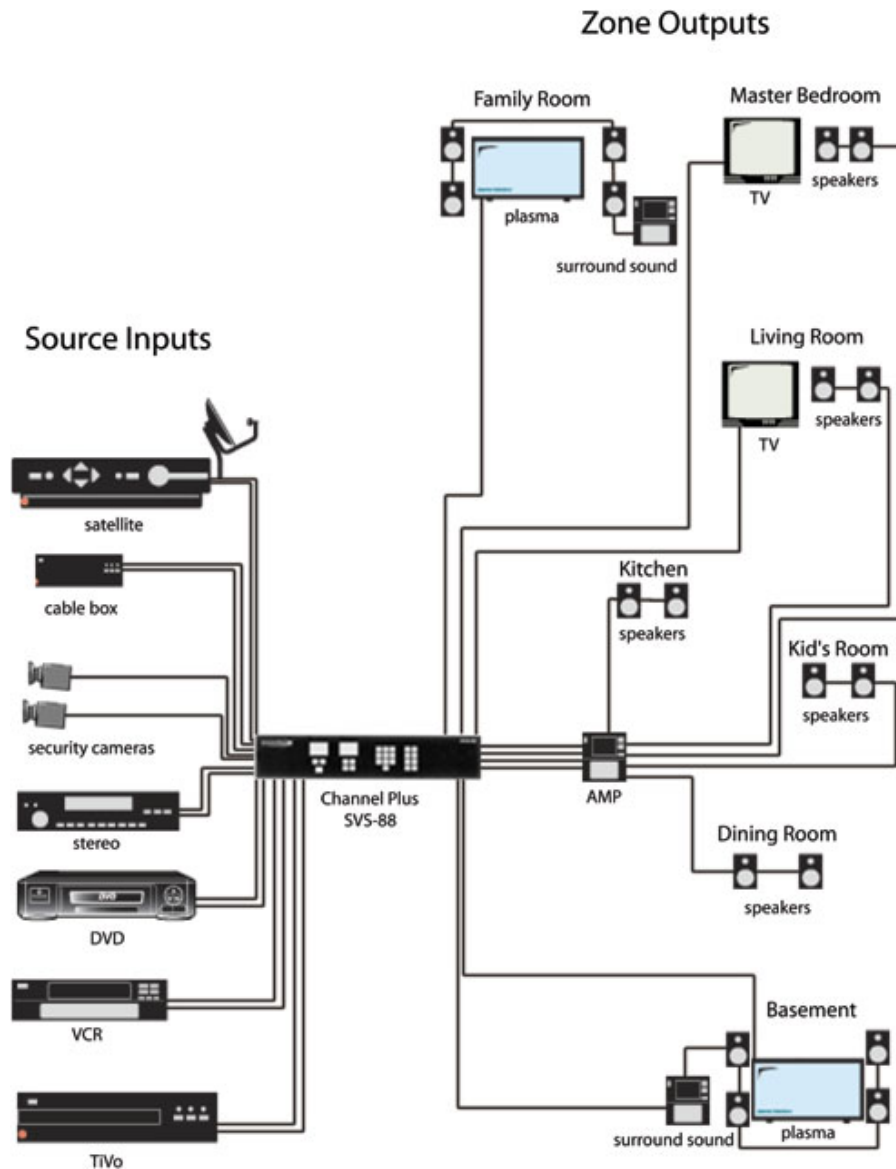
The EyeOn Media Software was designed to enable communication between the Dell Optiplex and EyeOn System. This must be connected over CAT 5 to the network. The Media Server communicates over TCP/IP.

4.6 VIDEO: CHANNEL PLUS SVS-88 S-Video Matrix Switcher (040001)

There is no software to communicate with the CHANNEL PLUS SVS-88 S-Video Matrix Switcher. All that is needed for the EyeOn system to communicate with this device is to plug it into the server with a RS232 **Null Modem** cable. This is not a regular RS232 cord. It is also recommended that the Channel Plus be hooked into ttyS0 (The onboard serial port).

The SVS-88 has eight inputs and eight outputs. When hooking your audio and video cables to it you must remember which inputs are in which number and which outputs are where. We recommend writing this down as you do it.

Below is an example:



For owner's manual and RS232 protocols view file SVS-88 on your EyeOn Technician CD. This device connects at 9600 BPS 8-N-1.

4.7 VIDEO: Key Digital Fatboy Switcher (040002)

There is no software to communicate with the Keydigital Fatboy Switcher. All that is needed for the EyeOn system to communicate with this device is to plug it into the server with an RS232 cable. This is a regular RS232 cord

The Fatboy has eight inputs and 4,8,12,16,etc outputs. When hooking your audio and video cables to it, you must remember which inputs are in which number and which outputs are where. We recommend writing this down as you do it.

For the 8X4 you *must* hook up the RS232 and send a CCA01 command. 4800, 8N1

For the owner's manual, view file KDMSW8x4_Manual_HIRES on your EyeOn Technician CD. For Tech Specs view file KDMSW8x4_Specsheet on your EyeOn Technician CD. This device connects at 4800 BPS 8-N-1.

4.8 VIDEO: Kramer 7000 Protocols (040003)

No configuration software is needed to pre-configure the Kramer 7000. Just connect the RS232 port to the EyeOn Server's RS232 port.

You will also have to select the number of Inputs and Outputs. When hooking your audio and video cables to it, you must remember which inputs are in which number and which outputs are where. We recommend writing this down as you do it.

4.9 VIDEO: Local Video Source (040004)

There is no software to communicate with the Local Video Source. You will need to select the number inputs and outputs for this device. This feature can be controlled using the manage remotes feature.

4.10 SECURITY: ELK M-1 (050001)

Hooking up the Elk security system is the most in-depth part of the EyeOn installation process. The Elk controls the in-house security system, opening and closing garage doors, turning touch screens on and off, routing power to different devices, intercom systems, pool alarm, etc.

The following files can be found on your EyeOn Technician CD.

For the ELK M-1 installation and programming manual view file M1_Installation&Programming_Manual.

For the ELK user guide view file M1_User_Guide.

For the ELK M1DBH data Bus Hub installation guide view file M1DBH_Data_Bus_Hub.

For the ELK M1TWI Two Way Listen-in Interface installation guide view file M1TWI_2_Way_Interface.

For the ELK M1 LCD Keypad installation manual view file M1KP_LCD_Keypad.

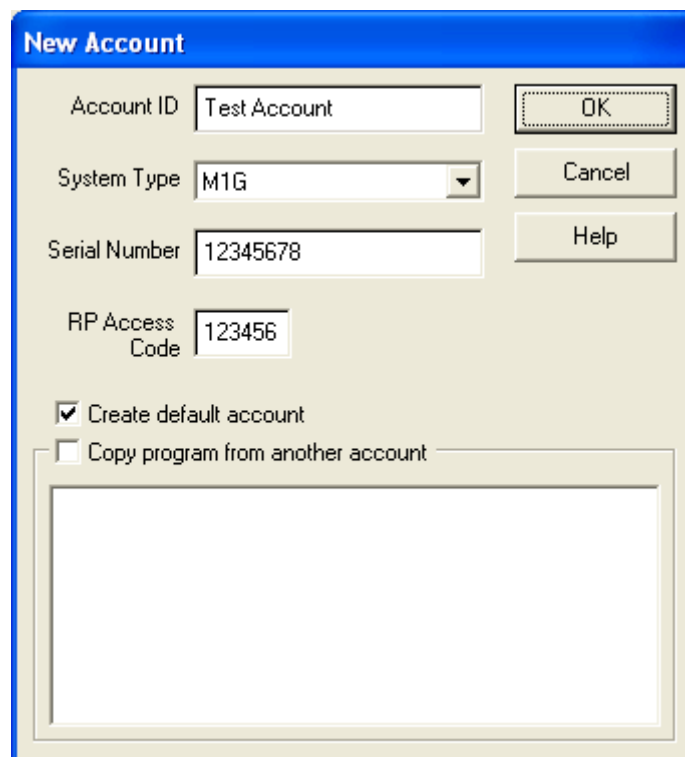
For the ELK M1RB Output Relay Board installation guide view file M1RB_Relay_Board.

For the ELK M1XOVR Output and Relay Expander installation guide view file M1XOVR_Output&Relay_Expander.

For the ELK M1XIN 16 Zone Expander installation guide view file M1XIN_Input_Expander.

The first part of the Elk configuration will be installing all the input and output devices. For this step of the process you will have to use the ELKRP M1 SOFTWARE 1.6.10. Use your EyeOn Technician CD to download the full version, file ElkRP_Full_Install_1_6_10. You will have to plug your computer directly into the ELK onboard serial port. Or you can enroll these cards through the ELK keypad itself.

After you have installed the software you will need to setup the com port. Go to connections then select com port. You will probably use com port 1. After that, select IPconf line. Hit okay and create a new account (Image below).



New Account

Account ID: Test Account

System Type: M1G

Serial Number: 12345678

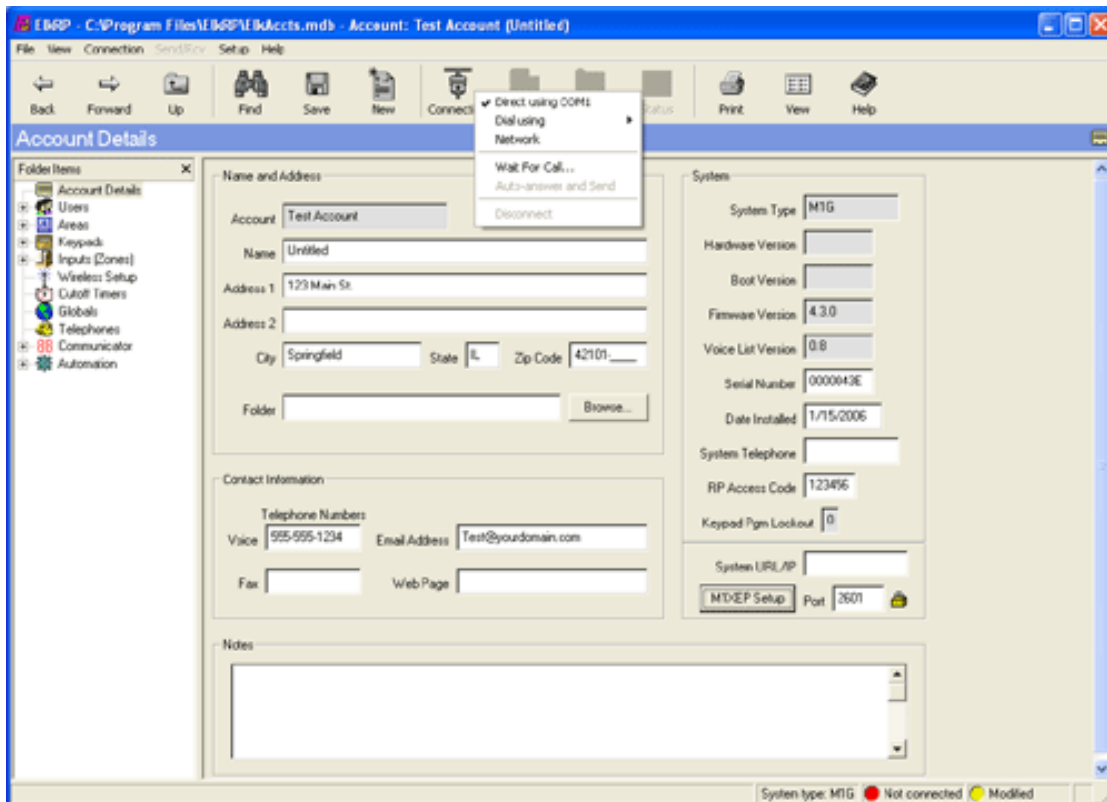
RP Access Code: 123456

☒ Create default account

☐ Copy program from another account

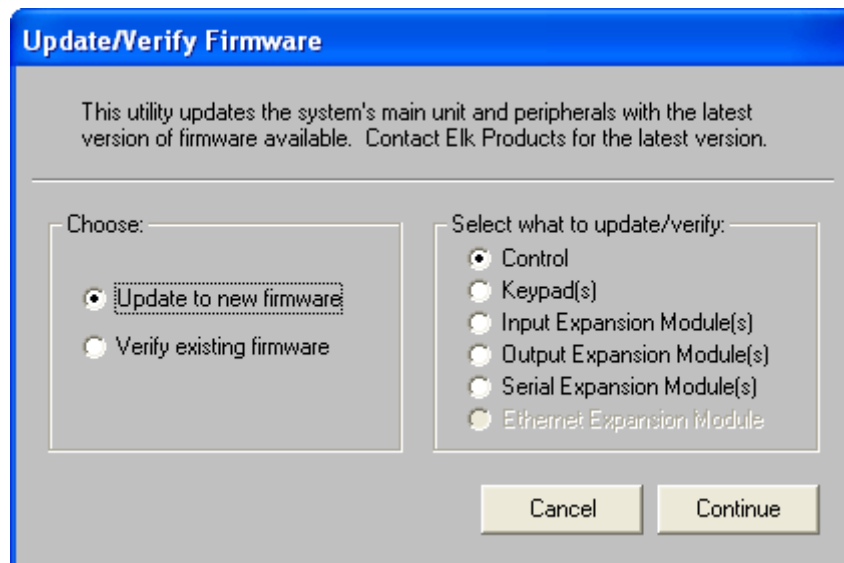
Buttons: OK, Cancel, Help

The Serial Number is located on the bottom of the M1 board. The RP Access Code is very important. If you lose the RP Access Code you can not make changes to the ELK programming. Make sure you write down this information.



After you fill out all the customer information and connect the RS232 cable, choose the connection icon and Direct Using COM1 (Which ever port you have it connected to)

After you are connected you will need to Upgrade the Firmware. (This is optional now, the firmware on the ELK is probably up to date) Choose Send/Rcv --> Update/Verify Firmware. When the Firmware screen appears simply hit Continue to upgrade the firmware on the system.



This will take several minutes to upgrade. After the program is updated you will not be able to reconnect for a few minutes because the EEPROM is upgrading internally.

Now that you have upgraded the system it's time to setup the remaining information associated with the system.

Start by choosing the Users Tab. Here you will setup each user's code. Most houses will only have one. You will have to contact the home owner to find out what code they'd like to use. You can setup a temporary code and change it later from the ELK Keypad, we recommend 1234. Since we only use Area 1, uncheck everything but Area 1.

User: 1 User's Name: **Customer Code**

☐ This user has an access key (26-bit Wiegand) instead of a code.

Code: **0000** To generate a random code, click here **Generate**

Send to Control
Not Connected

Areas
This code works in the following areas:

- ☒ 1 **Select All**
- ☐ 2 **Clear All**
- ☐ 3 (Except Area 1)
- ☐ 4
- ☐ 5 Note: At least one area must be selected.
- ☐ 6
- ☐ 7
- ☐ 8

User Authorizations

- ☒ Arm
- ☒ Disarm
- ☒ Bypass
- ☐ Access
- ☐ Temporary Code
- ☒ Master
- ☐ User Menus 1-5 Allowed
(Valid only if Globals option "Menus 1-5 Require Code" is checked.)
- ☐ Duress

From the user screen you will then move to the Area screen. You will only need to setup Area 1. The EyeOn system only supports Stay and Stay Instant modes, so uncheck the night modes. Also uncheck the Single keypress quick-arm checkbox.

Area: 1 Name:

Not Connected

Entry and Exit Delays
(All times are in seconds)

Exit 1: Entry 1: Exit 2: Entry 2:

Arming Options

- ☐ Auto Stay Mode after exit time if no violation
- ☐ Restart Exit Timers
- ☐ Sound keypad after closing report
- ☒ Single keypress quick-arm
- ☐ Double keypress quick-arm

STAY Key Scrolling

- ☒ Stay
- ☒ Stay Instant
- ☒ Night
- ☐ Night Instant

☒ Allow STAY key change if armed

After you have setup the Area's you will need to setup the keypads used in the house. Before setting up the keypads you will have to enroll them into the system. Each keypad will have an assigned address. From the factory all keypads are set to address one. Valid keypad addresses are 1 to 16. The first keypad on the system (Keypad 1) is automatically enrolled upon power up. Each additional keypad must be assigned a unique address and then manually enrolled from Menu 1 - Bus Module Enrollment.

(This only has to be done if there are more than 1 keypad)

- 1) Press and hold the * key, followed by the F5 key. Hold both keys pressed for 5-10 seconds or until the LCD displays: Exit when done. F1 Set Addr.
- 2) Press F1 to display current address
- 3) Set the desired address by entering a number from 1 to 16.
- 4) Press the Exit key when done.

ENROLLING:

After you have setup all the keypads you will have to Enroll them into the system.

- 1) Press the ELK key, then press 9 to access the Installation Programming. Press the Right arrow key to select this menu. The Installer Program Code must be entered to access this menu.
- 2) Enter the Installer Program Code.
- 3) The first installer Programming menu displayed will be "Bus Module Enrollment".
- 4) Press the Right arrow key to select this menu.
- 5) The M1 transmits an enrollment message to all data bus devices, following by a display showing the total Bus Modules that are enrolled.
- 6) Press the Exit key to exit Installer Programming.

Each Keypad should be setup like the following example. To make the F4, F5 and F6 keys work with the EyeOn system they must be configured with the following settings.

Keypad: 1 Name: **Main Keypad** Assigned to area: **1** Note: If a zone is wired to this keypad, it will be assigned as Zone 193.

Options

<input type="checkbox"/> Silent during entry delay	<input checked="" type="checkbox"/> Show date and time
<input type="checkbox"/> Silent during exit delay	<input checked="" type="checkbox"/> Show temperature
<input type="checkbox"/> No chime	<input checked="" type="checkbox"/> Show area name
<input type="checkbox"/> LEDs off 60 S after no activity	<input checked="" type="checkbox"/> Bypass key requires User Code

Miscellaneous options

Back Light: **4**

Key beep tone: **1**

Key beep volume: **3** (0 = Off)

Definable Keys

Key	Activates Event	Illumination Event	Invert Light	Blink Light	Requires Code	Single Press	Name
F1	10 = Fire Alarm	1001 = FIRE ALARM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F1 = Fire
F2	23 = Police Alarm	1005 = POLICE ALARM, ANY AREA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F2 = Police
F3	22 = Medical Alarm	1004 = MEDICAL ALARM, ANY AREA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F3 = Medical
F4	2001 = AUTOMATION TASK 01	1000 = No Event	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
F5	2002 = AUTOMATION TASK 02	1000 = No Event	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
F6	2003 = AUTOMATION TASK 03	1000 = No Event	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

The ELK M1 Main board has 16 zones built on. Expanders can be added to this unit during install. If there are more than 16 input zones, or you are using a wireless card, right click on the inputs link and choose New Input Expander or New Wireless Expander.

Zone: 1

Name: **Front Door**

Configuration

Definition: **01 = Burglar Entry/Exit 1**

Type: **1 = Normally Closed**

Area: **1**

Attributes

<input type="checkbox"/> Silent alarm	<input type="checkbox"/> Swinger Shutdown
<input type="checkbox"/> Use Dialer Delay	<input type="checkbox"/> Require periodic trip
<input type="checkbox"/> Listen in	<input type="checkbox"/> Fast loop response
<input checked="" type="checkbox"/> Bypassable	<input checked="" type="checkbox"/> Enable chime
<input type="checkbox"/> Force armable	<input type="checkbox"/> In cross zone pool

Voice Description

Zone: **Zone**

One: **One**

{Blank}: **{Blank}**

{Blank}: **{Blank}**

{Blank}: **{Blank}**

{Blank}: **{Blank}**

Send to Control (Not Connected)

Send and Say (Not Connected)

If you are installing a door sensor, use definition 01 and type normally closed.

If you are installing a motion detector, use definition, 04 and type normally closed.

If you are installing a glass break detector, use definition 01 and type normally closed.

If you are installing an outdoor motion detector, use definition 16 and normally closed.

If you have any indoor sensors but shouldn't activate any alarms, set them to definition 16 and normally closed.

When hooking up the doorbell, choose the Fast loop response, definition 16 and normally closed.

When hooking up garage door sensor, use definition 16 and normally closed.

If you are hooking up a fire alarm detection system, use zone 15 and 16. Zone 15 should be the power monitoring system. This should be set to definition 16 and normally closed. Zone 16 should be set to definition 10 and type 5, if it's a four wire system. No attributes for any of these.

It's also important to name each zone for the consumer's logs.

Wireless Setup

Clients may take advantage of wireless technology in their home. To setup the ELK wireless module right click on the input tab and choose New Wireless Expander. You can only have one wireless card per unit, they come in 8, 16, and 48 zone cards. Once installed, the zones will work the same as regular onboard zones. You will have to enroll all the wireless devices after you have uploaded the system. See below for instructions.

Keyfob Setup

Some users might want to take advantage of a Keyfob to control their system. To allow control you must setup the keyfob in the Wireless Setup screen. The buttons must be setup as follows.

Receiver Transmitters **Keyfob Events**

Select the event each keyfob button activates.

Button 1 2004 = AUTOMATION TASK 04

Button 2 2005 = AUTOMATION TASK 05

Button 3 2006 = AUTOMATION TASK 06

Button 4 2007 = AUTOMATION TASK 07

Button 5 2008 = AUTOMATION TASK 08

Button 6 2009 = AUTOMATION TASK 09



Button 7 2010 = AUTOMATION TASK 10

Button 8 2011 = AUTOMATION TASK 11

Send to Control

Not Connected

If you are using a keyfob, you must enroll the fob into the system. See the wireless enrollment at the below for more information. *It is also important to know that the Keyfob will take up one zone on the wireless system. You will need to set this zone to definition 15-Keyfob.*

Zone: 24			
Name: <input type="text" value="KeyFob"/>		Not Connected	
Configuration			
Definition: <input type="text" value="15 = Keyfob"/>			
Type: <input type="text" value="0 = EOL Supervised/RF"/>		Not Connected	
Area: <input type="text" value="1"/>		Voice Description	
Attributes		<input data-bbox="938 464 1252 493" type="text" value="{Blank}"/>	
<input type="checkbox"/> Silent alarm	<input type="checkbox"/> Swinger Shutdown	<input data-bbox="938 522 1252 552" type="text" value="{Blank}"/>	
<input type="checkbox"/> Use Dialer Delay	<input type="checkbox"/> Require periodic trip	<input data-bbox="938 581 1252 611" type="text" value="{Blank}"/>	
<input type="checkbox"/> Listen in	<input type="checkbox"/> Fast loop response	<input data-bbox="938 640 1252 669" type="text" value="{Blank}"/>	
<input type="checkbox"/> Bypassable	<input type="checkbox"/> Enable chime	<input data-bbox="938 697 1252 726" type="text" value="{Blank}"/>	
<input type="checkbox"/> Force armable	<input type="checkbox"/> In cross zone pool	<input data-bbox="938 756 1252 785" type="text" value="{Blank}"/>	

Once you have completed the zone setup, move to the global settings.

G01-05 can remains default

G06-G10 remains default

G11-G12 should be set to 4 digits unless the home owner would like a 6 digit code

G13 remains default


G14-G18 remains default

G19-G25 remains default


G26-G28 If you have installed an outdoor siren to output 2, choose siren output.

G29-G42 needs to be changed to transmit all data to Serial Port 0


G01-G05 (Miscellaneous)	G06-G10 (Zones)	G11-G12 (User Codes)	G13 (Common Area)
G14-G18 (Output 1)	G19-G25 (Voice)	G26-G28 (Output 2)	G29-G42 (Special)




Not Connected


Rings until auto-answer 

Two-Way Listen-in Enable ☐

CS Verify Call Time in Secs (Additional Alarms Are Held) 

Ring/Hang-Up/Answer ☐

Two-Way Callback Time in Secs (Answer on 1st Ring) 


Serial Port 0 baud rate 


Serial Port 0

Transmit event log	<input checked="" type="checkbox"/>	Transmit zone changes	<input checked="" type="checkbox"/>
Transmit output changes	<input checked="" type="checkbox"/>	Transmit task changes	<input checked="" type="checkbox"/>
Transmit lighting changes	<input checked="" type="checkbox"/>	Transmit keypad keys	<input checked="" type="checkbox"/>

Menus 1-5 Require Code ☐

Local programming code

UPB Lighting Network Addr* 

KP Programming Lockout* 

*(Not available through keypad programming)

*The local programming code is set to 172839, this should be changed so other installers can not access your system at the keypad level.

If you are having problems with the outdoor siren, you might have to switch the wires going into the ELK output 2.

Make sure you save the configuration file so that you can access it later.

Once you have completed the entire settings configuration you are ready to update the ELK system. Choose the Send/Rcv icon on the toolbar to send your data to the ELK system.

Changing the User's Code from the Keypad:

After you have setup the software and are ready to let the home owner create their own password for the security system go to Menu 6 on the keypad. Choose user 1 and let them type in their new 4 or 6 digit code. After they have entered the new code choose exit. You will have to input the installers' code to access screen 6.

Wireless Enrollment:

If you are using a wireless card you will need to enroll each device into the system after the wireless card has been setup and uploaded to the ELK system.

- 1) Press the ELK key, then press 9 to display Installation Programming. Press the Right arrow key to select this menu.
- 2) Enter the Installer Program Code.
- 3) Press 14 to access the Wireless Setup Menu, and then hit the Right arrow.
- 4) Press 3 to access the learn command, and then hit the Right arrow.
- 5) Choose which Zone you would like to learn first, make sure to match up the Zone you programmed into the software with the Zone you learn to the system.
- 6) Press the Right arrow to activate learn mode. Go to the transmitter and press the tamper or enroll button. The keypad should emit a short tone when the transmitter becomes enrolled.
- 7) Continue these steps for all the wireless devices in the house.
(If you are using a keyfob make sure you enroll this onto the zone you setup above for the keyfob. To enroll the keyfob press the two bottom buttons at the same time (Light & Star).)

For advanced diagnostics you can view file ELK-M1_RS232_PROTOCOL on your EyeOn Technician CD to get a list of the RS232 protocols. This device connects at 115200 BPS 8-N-1. You must use the check sum generator to send commands with RS232. Use file M1_CRC_Calculator on your EyeOn User Manual CD to download.

4.11 SECURITY: WebRelay (170001)

WebRelay is an electro-mechanical relay with a built-in web server. It can be controlled via the Internet or a local intranet. It is very simple to set up and use and has many features. There are 3 types of WebRelay devices that are integrated with the EyeOn Automation system: WebRelay, WebRelay Dualm and WebRelay Quad.

To begin setup on the WebRelay hook up unit to power and network only. Next setup a computer on the same network using an IP address of 192.168.1.2 and a Subnet Mask of 255.255.255.0. This will be used to configure the relay.

Now login to <http://192.168.1.2/setup.html> with your web browser. (This is the default IP address). The page is password protected. Enter 'webrelay' to gain access. Set the permant IP address in the configuration page. Next power cycle the relay for the changes to take place. After the relay powers back on the contacts can be connected. The computer can now be set back to it's original settings.

The WebRelay can now be accessed using the new IP address.

NOTE:

For the Web Relay

Click "Relay / Input " and change Relay Options to no local relay control.

For the Web Relay Dual

Click "Relay 1/ Input 1" and change Relay 1 Options to no local relay 1 control.

Click "Relay 2/ Input 2" and change Relay 2 Options to no local relay 2 control.

For the Web Relay Quad you must use Firefox to change the IP address.

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4.12 CLIMATE CONTROL: RCS TR40 (060001)

Use file TR40 Owners Manual on your EyeOn Technician CD to view the TR40 owner's manual.

Use file TR40 Remote Temp Sensor Manual on your EyeOn Technician CD to view the TR40 remote temperature sensor install manual. (OS21)

The TR40 has software that can communicate with it directly. This software is not needed to setup the TR40 to work with the EyeOn system but might want to be used for trouble shooting. Use file TR40 on your EyeOn Technician CD to download the software.

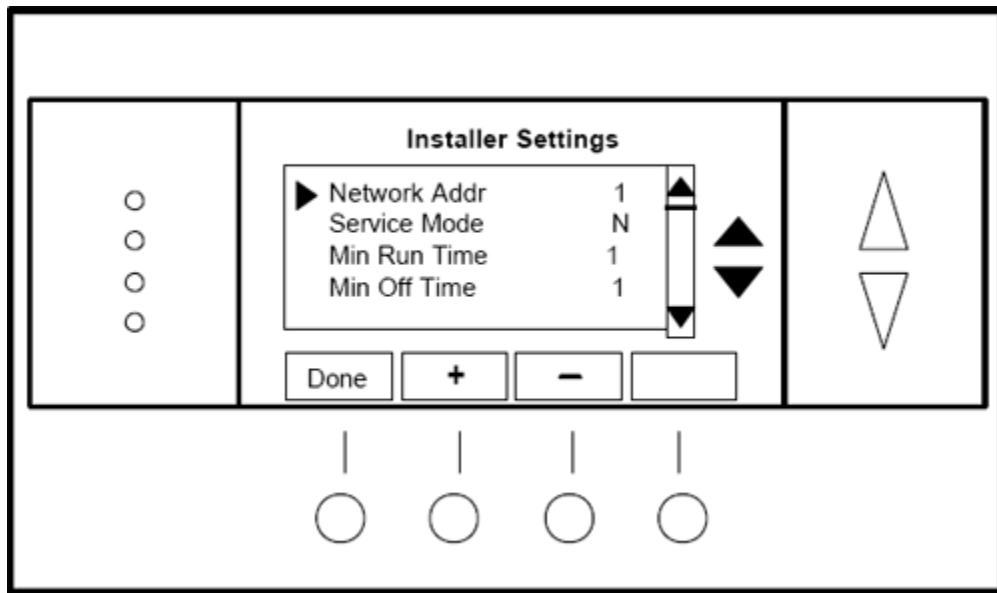
All devices in the climate section use a RS485 bus to send and receive data. Because of this we use a RS485 hub to bring all climate devices together and then turn it into a standard RS232 input. The hub has 8 Individual RS485 channels that allow home-run style wiring and a RS232 output. To hook up more than 8 devices you will have to chain together an 8 port RS485 hub with RS485 output to the input of an 8 Port RS485 hub with RS232 output. For a wiring diagram please view RS485 Hub Wiring Diagram PDF on your EyeOn Technician CD.



Once all of the TR40 (For a wiring diagram use your EyeOn Technician CD to view file TR40 Diagram.gif, see owner's manual for install details) and Outdoor sensors have been installed you must address each. The Outdoor sensor by default will be address 1 and can remain this way. You will have to go up to each TR40 and set a unique address for the EyeOn system to communicate with. Please write this information down.

Setting Address, Start with Address 2.

Press the far left button to access the *menu* section. Once you have entered the menu section press and hold the two middle buttons until you enter *Installers Settings*.



Scroll down until you are on the network address and hit the + and - keys to set each address uniquely, start with Address 2.

Note: *After you have setup the Network Address you must set the Auto Send Mode to YES or you will not get feedback from the system when a user makes a change at the remote level.****

For advanced diagnostics you can view file TR40 Serial Protocols on your EyeOn Technician CD to get a list of the RS232 protocols for the TR40. View file OS21 Serial Protocols on your EyeOn Technician CD for RS232 protocols for the OS21 Outdoor Sensor. This device connects at 9600 BPS 8-N-1 from the RS485 hub.

HVAC Systems Compatibility

Works with standard Gas/Electric or Heat Pump HVAC mechanical Systems

2-stage Heating, 2-stage Cooling for Gas/Electric systems.

3-stage Heating, 2-stage Cooling for Heat Pump systems.

4.12 SURVEILLANCE: URL (070001)

Using this feature will only allow for a direct link to the web based interface of the DVR system. You will include the URL in the admin setup section. All setup must be configure on the DVR itself and is not supported by EyeOn.

4.13 SURVEILLANCE: PC DVR (070002)

The PC DVR comes preinstalled from the EyeOn Service Center.

The PC DVR communicates to the server though http commands sent by the Linux server. No RS232 protocols are used.

You must setup a username and password on DVR.

To do this, go into Control Panel, then administrator tools and Internet Information Services. Then right click on default Website. Click on IIS Password tab. Add the username and password to the public folder. Make sure this username and password are the same as you setup for access to the web-based screen. (This is setup on the setup tab)

Setup all the presets for all pan/tilt/zoom cameras. This will be accessible from the touch screen.

The DVR works by only recording when motion is detected. All the motion settings should be setup out of box. This may not always be the case. You might need to adjust the motion settings to help capture motion better and trigger the recording. You also can set the DVR to always record, but this will take up much more disk space.

Make sure you go into the DVR camera names and change the name of each camera to the real camera name. Most cameras are setup by default as Cam01, Cam02, etc.

- Make sure Remote Desktop is enabled.
- The default IP is normally 192.168.130.53.

4.14 LIGHTING: Insteon (080002)

Use your EyeOn Technician CD to view the following files.

For Insteon SwitchLinc V2 Dimmer User's Guide view file Insteon-SwitchLinc.

For Insteon SwitchLinc V2 Relay User's Guide view file Insteon-SwitchLinc-Relay.

For Insteon KeyPadLinc V2 User's Guide view file Insteon-KeypadLinc.

For Insteon KeyPad Linc Labels view file Insteon-KeypadLinc-Labels.

For LampLinc V2 User's Guide view file Insteon-LampLinc.

You will need to place two Insteon Access Points throughout the house for maximum Insteon reliability. It is also recommended to install a Phase Coupler across the 240 line where the dryer is plugged in.

No setup is required at this point for the lighting system. All of the setup will be done in the Installer's Screen.

On keypad link you need to make sure all lights are off before you program. If you have an 8 button you need to fix the B button to turn the light off. Click for 10 seconds, let go then click for 5. Then let go and click for 5 more. Turn light off then repeat.

However, you might want to connect the 3-ways in the house for ease of the home owners' use before you will be ready to setup the lighting system (The lighting section can not be setup until the server is up and running). To connect two switches together, simply press and hold the little set button for ten seconds of Switch 1. The LEDs on the switch should blink. Hold the on button on Switch 2 for ten seconds, the light should flash off and on. Now you will have to link the switches the other way. Hold the on button for Switch 2 for ten seconds until the LEDs are blinking. Do the same to Switch 1. Now you should be linked both ways. If you want to link 3 or more switches you will have to link every switch in both directions to make this work properly.

This device connects at 19200 BPS 8-N-1.

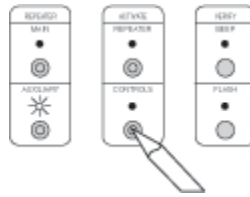
You must connect the PLM to the server.

4.15 LIGHTING: Lutron (080003)

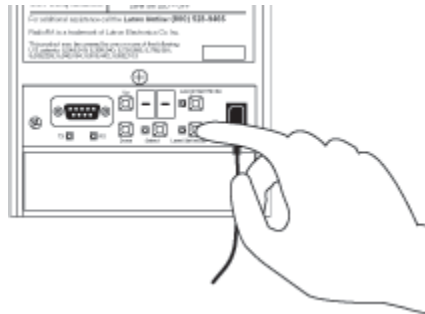
To view the Lutron RA-RS232 setup guide please view the PDF on your EyeOn Technician CD.

Lutron must first be installed in place of all the light switches you would like to control. The EyeOn system will only add direct control to each light in the house. All sensors can only be accessed at the switch level. Once you have installed the lights throughout the house, it's important to setup at least one repeater. The RA-RS232 will communicate directly with the repeater.

Press and hold the ACTIVATE CONTROLS button on any Repeater until the green CONTROLS LED turns on (about three seconds).



Once the CONTROLS LED is on, press any button on the RA-RS232 device and all the LEDs will flutter. The display will flash 01 when the RS232 interface has been activated. *If the RS232 interface fails to respond, consult page 68 in the setup guide.*



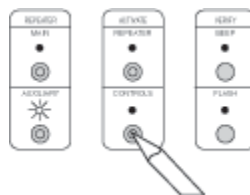
Once you are done press and hold the ACTIVATE CONTROLS button on any Repeater until the green LED turns off (about three seconds).

The RS232 interface is now activated.

Setting up each light:

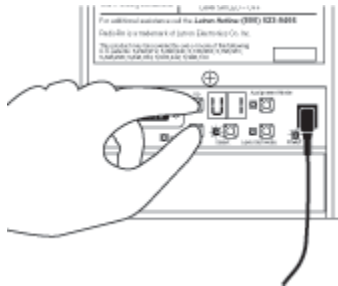
The first thing you will have to do is program every light switch into the repeater before you can program the individual lights into the RA-RS232 device.

To do so, press and hold the ACTIVATE CONTROLS button on any Repeater until the green CONTROLS LED turns on. (This should take about 3 seconds.)

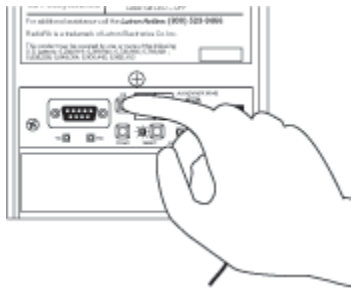


Then, you will walk around the house and turn on or off every light switch you wish to control. When the light switch is turned on or off, it should blink two or three times to show you that it was accepted. After you have programmed all light switches into the repeater you can press and hold the ACTIVATE CONTROLS button until the green LED turns off (this takes about three seconds). You can easily test all the switches you just programmed into the repeater by pressing the flash button for a few seconds until the green LED appears. Every light that is programmed through the Lutron system should flash on and off. If any switch does not flash reprogram it by holding the controls button down again. When done checking all the lights on the system press and hold the flash button until the green LED turns off.

Once you have completed the above activation, you will need to activate each light switch in the house to the RA-RS232 device. Start by simultaneously pressing and holding the Up and Down buttons until the Select LED turns ON and U1 appears on the display (about three seconds).



Press and release the Select button repeatedly until U2 appears on the display. Press and hold the Up or Down button to select the Zone Number you want to program. Start with Zone 1 and go up from there. There are only 32 zones that can be used.



Now you must assign a switch to link up with this zone address. Simply turn the switch On or Off. The assigned LED will flash for approximately two seconds. The Level LED will then turn On indicating that the Zone Number is now programmed. Make sure you write this information down.

Repeat these steps again for the remaining Zone Numbers you wish to assign.

To finish the setup stage press and hold the Up and Down buttons until all the LEDs begin to flutter.

It's important to verify a Zone Number assignment, change the status of the switch by turning it On or Off. The display will flash **d** followed by the Zone Number assigned.

Once you have verified all the switches you are now done with the Lutron setup.

For advanced diagnostics you can view file Lutron Radio RA-RS232 Protocols on your EyeOn Technician CD to get a list of the RS232 protocols. This device connects at 9600 BPS 8-N-1.

4.16 LIGHTING: Leviton (080004)

This only works with the Dimension D3208. This is not for the wireless system.

The first thing you most do is set the time on all the Dimensions D3208 or the units will flood the network. To do this you will click the menu button and scroll up to the Time Wizard. Once here go through the steps and setup the time. HAI??

Then you will need to setup a panel ID for each Dimension D3208. Go to Menu then setup wizard. Do the basic setup. Once you get to Panel ID set the Panel ID and save this number.

4.17 LIGHTING: Leviton Z-Wave (080005)

This works with the Vizia RF System

You must setup all lights with the controller. We recommend the RZCPG.

Begin by setting up all of the lighting devices. Menu>System Setup>Install Checklist>Include Dim/Switches> Then you must go through and add each light. We recommend setting up a spread sheet with the room, light name and the node number. To save time you do not have to create all the names on the RZCPG controller as long as it is documented.

You must add the Controller before you can add the lights. This is the RS232 device that is plugged into the server. Plug this device into any RS232 port. Next, put the controller in programming mode. To access programming mode press and hold programming button until the LED turns Amber. You can now add each lighting device.

After you have setup all your devices and controller you need to setup areas for each room. This will allow the system to control lights individually and collectively as a room. Area 1 needs to be all lights in the home or office. This will be used for the All lights ON and All lights OFF commands. We recommend setting up the consecutive Areas (rooms) in a logical order from the front of the house to the back.

You will need to update the controller when you are done. If you make any changes to devices or areas, in the future, you will need to update the controller again.

You will need to setup each node so the system can get feedback.

Select >Advanced> HAI Setup>Click the Controller>Put a check next to each switch/dimmer you want feedback from. You will put a check by pressing the + button. Then click the center button when you are finished. We do not recommend using Lamp and Appliance Modules.

If you are setting up a Keypad you must enroll it as a controller. To do this put the keypad in linking mode. You do this by pressing button 1 and 3 until the lights turn amber (about 5 seconds). Then use your RF remote. Go to System Setup>Advance>Yes>Network>Include Node>Click the center button. This should enroll the keypad. If it does not you might need to reset the device to default or pull the power off of the switch. Remember you must update your RS232 controller at the end. A soft server reboot is required to make the keypad work.

Sometimes you might not get feedback on each Light. If you do not get feedback you need to Select >Advanced> Utilities>Dev Properties> <Find your node that is not giving feedback>>Select the Node>Click the Assoc button>Make sure that there is a check mark on the RS232 device. If you are still having problems you can click the – sign and turn it off and save it. Then turn it back on by hitting the plus sign.

If you are having problems with all the lights coming on and off you might need to rediscover the network or Update the routes. You need to do this on the RF controller. Make sure you do this where the RS232 module is installed.

Network Rediscovery

ADVANCED>NETWORK>NTWRK REDICOVERY

Update Routes

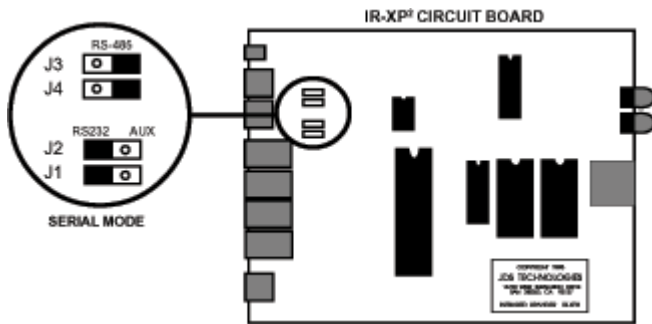
ADVANCED>RTS DEVICES>UPDATE ROUTES

4.18 IR: JDS (090001)

To download the User Manual and get a list of the RS232 protocols view file JDSManualAndProtocols on your EyeOn Technician CD.

This device must be changed over to Serial Mode before connected to the server.

- 1) Remove any static charge from your hands by touching a piece of metal.
- 2) Remove the two Phillips head screws on the rear panel of the IR-XP2 and carefully slide out the circuit board.
- 3) Locate the four jumpers just behind the RS232 jack on the edge of the circuit board.
- 4) Move jumpers **J1** and **J2** to the **RS232** position.



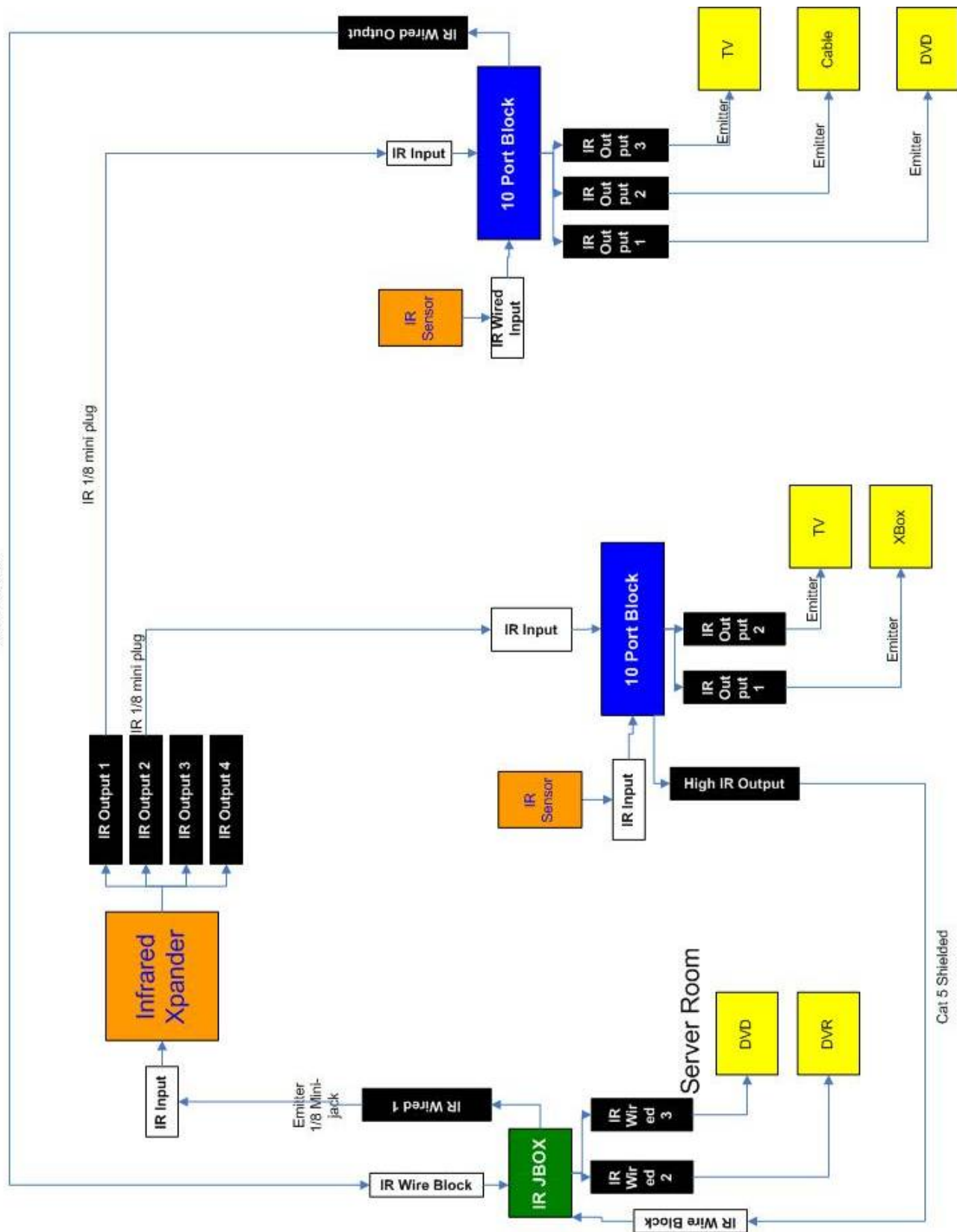
- 5) Slide the circuit board back into the enclosure.
- 6) Replace the rear panel.
- 7) Connect one end of the provided data cable to the RS232/AUX jack on the rear panel of the IR-XP2.
- 8) Plug the DB-9 Serial Adaptor into any of the RS232 cords on the server.

The rest of the setup for the JDS will be done in the admin setup screen.

For advanced diagnostics you can view file JDSManualAndProtocols on your EyeOn Technician CD to get a list of the RS232 protocols. This device connects at 2400 BPS 8-N-1.

You might need to use a Stereo 1/8 MiniJack cable

See the diagram on the following page.



4.19 IR: Ocelot (090002)

Hook up the Ocelot to the server with RS232. You can add one ADICON 2500 SECU16-IR module to the system. This will give you up to 16 different IR ports.

You need to make sure you address your SECU16-IR module before you start. It needs to be addressed as module 0. The addressing will probably happen automatically. If the expander module is not working you must load the software that came with the Ocelot and click on “attach to controller” and update the module. This update should happen with a message prompt.

You can use the C-Max Software that comes with the device to configure it. We recommend using version 2.00 or higher. This is not required because EyeOn will configure the device for you.

Note from Ocelot

“Choosing the right IR code numbers is important: You can use IR codes in two ways with your Ocelot: They may be learned to be reproduced later by the Ocelot, for the purpose of controlling equipment under C-Max program control. IR codes can also be recognized by the Ocelot itself as input events. This gives you one more way to interact with your controller and have it respond to the IR codes to control devices in your home; be it X10, expansion modules, etc. If you plan on learning certain IR codes for the purpose of having the Ocelot recognize them as input commands later, store these in the lower numbered IR code locations. This is because whenever the controller receives an IR command, it must search through its list of learned IR codes to look for a match, which takes time and resources. To keep the search time reasonable, there is a controller parameter (parameter #20) which allows you to specify the maximum code location number to try before giving up looking for a match. By default this parameter is set to 80. If you need to recognize more than 80 codes, then adjust parameter 20 to the appropriate higher value. Conversely, if you do not need to match that many codes, then set parameter 20 to a lower number to speed up the processing of unrecognized codes. Note: Do not use code location #0 if the code will need to be recognized by the Ocelot.”

EyeOn will automatically setup the parameter. Parameter #20 can be adjusted in the admin screen under the IR

Set Ocelot parameter #18 to 1 (enable ascii tx on match)

Set Ocelot parameter #20 to the highest location to compare

4.20 UPS: APC (140001)

The APC must be hooked up to the EyeOn sever through a USB cord to enable a communication flow.

4.21 POOL/SPA: Jandy Aqualink Pool (150001)

There is no configuration needed on the Administrator screen for the Jandy Aqualink Pool. The Jandy controller: however, does need to be hooked up to the EyeOn server using RS232 connection.

4.22 TOUCH SCREEN: WinXP Pro 400MHz (100001)

All Touch Screens come from the EyeOn Service Center preconfigured. An IP is already set and each screen will act as a computer on the network. Touch Screens should be installed in the wall with the proper mounting bracket and hooked up properly. A power wire and Cat5 cable (hooking into the network hub in the server room) should be all that is connected to the screen.

EyeOn's Touch Screen is a low-voltage device requiring a 24VDC power supply. It is designed and programmed to work seamlessly with the EyeOn Server via a standard Ethernet connection. The following sections describe the requirements for connecting the EyeOn touch screen with the EyeOn Server.

Pre-wiring requirements

Before installing the EyeOn Touch Screen, you will need to pre-wire the mounting location with the following cabling:

- 16-gauge/3-conductor Cable for 24VDC Power
- Category-5 or Category-6 Cable for Ethernet communication

The installer will need to run these cables from the touch screen's location to the location where the Ethernet router (or switch) and remote 24VDC power supply reside. (Refer to the EyeOn Resource Center for more details about providing proper power and communication requirements.)

Terminations

Before terminating the communication and power cables, take a moment to familiarize yourself with these connection points on the touch screen, shown in Figure 1 below.



Figure 1

Start by crimping a connector onto the communication cable, using the T568-B standard. (Note that this wiring standard must also be used at the switch or router.) Performing this step first is prudent, since you won't be able to set the touch screen aside, once the power has been connected.

Prepare the 16/3 power cable by stripping away 1.25" of the outer insulation. Next, strip 1/4" inch of insulation from each wire. After insuring that each terminal has been loosened enough to accommodate the wire, insert and secure each wire into the touch screen's terminal block as shown in Figure 2, taking care to tug each wire after they have been tightened to insure that they are secure.



Figure 2

Now, simply insert the Ethernet connector into the touch screen's Ethernet port (shown in Figure 1). Once this connection has been made, carefully insert the touch screen into the wall mount that was previously installed.

4.23 VIDEO HARDWARE: JVC RS232 DVD/VHS

You must turn off power saving mode.

Make sure you can see the video. Go to setup, Function set up, Display set, Power Save, and then Off

4.24 Access Control (120001)

A computer should be pre setup before it goes on site with the RFID Badge Software. You will need to set the IP address to be on the local network for the computer. We have set the IP by default to 192.168.130.9. The computer is setup to communicate with 192.168.130.90 by default. If you need to change this then:

Navigate to the following directory
C:\Program Files\Hitcents\IDBadgeCreator\

Then load Hitcents IDBadgeCreator.exe.config

Change ConnectionString & AccessServer ip address to the corrected IP address.

Once you have done this you will need to setup the username and password on the EyeOn Server.

On the EyeOn Server:

Hit Ctrl, Alt F2 to switch to a clean terminal

Login with username and password

mysql -p

#type installer password

use mysql;

#Change username and password to the correct username and password. You can make this whatever you want.

grant all privileges on *.* to username@'192.168.130.9'

identified by 'password' with grant option;

grant all privileges on *.* to username@'localhost'

identified by 'password' with grant option;

exit

#Put in the same username and password for database to write logs

pico /home/homeauto/htdocs/datafiles/rfiddatabase.txt

User_Name½Password½

The first time you login, or any time you make a configuration change to EyeOn server for the Doors you will need to hold control to make the system download the doors to the computer.

NStar Setup

You will need to have 1 NStar Panel per two RFID card readers. You will hook Reader 1 into TS3 and card reader 2 into TS4. You will need to make sure you hook the ground up.

If you use the iClass cards here is the wire layout

Port 1 =Yellow and Orange

Port 2 =Green

Port 3 =White

Port 4=Black

Port 5=Red

On each panel you must address them starting from 1 and going up from there. The first 5 dip switches are used for addressing. These are setup in binary format. So 1 on all the rest off = 1. Please refer to the manual for a diagram.

Troubleshooting:

If the card is not reading at all then the processor might be locked up on the NStar. You need to do a full reset. Look in the NStar manual for instructions.

If your card is reading sometime you need to terminate the wires better. Try stripping off more of the wire in the NStar.

5.0 Wireless Configuration

If you are using Linksys Wireless Access Points these steps can help you below. (These steps can change depending on the firmware version). If you are using a different model please adapted these steps to your setup.

Configure wireless AP points (one at a time). Make sure only one is plugged in at a time.
Set computer IP to 192.168.1.2
255.255.255.0

Navigate to <http://192.168.1.245>

Default password is admin. No username

- Go to Wireless/Basic Wireless Setup
 - Set ssid to name of home/business (example: Smith)
- Go to Wireless/Wireless Security
 - Setup wpa-personal, setup password
 - Make up a separate password for wireless. (We recommend a different password for the SSID rather than the EyeOn Password. This way it can be easy shared)
- Go to Administrator
 - Change login password to home/business password.
- Go to setup/Network Setup
 - Set ip to 192.168.130.245 (Or whatever IP you are using)
 - Default gateway 192.168.130.254 (Or whatever DG you are using)
 - Set the next one up the same way, but make the IP 192.168.130.246

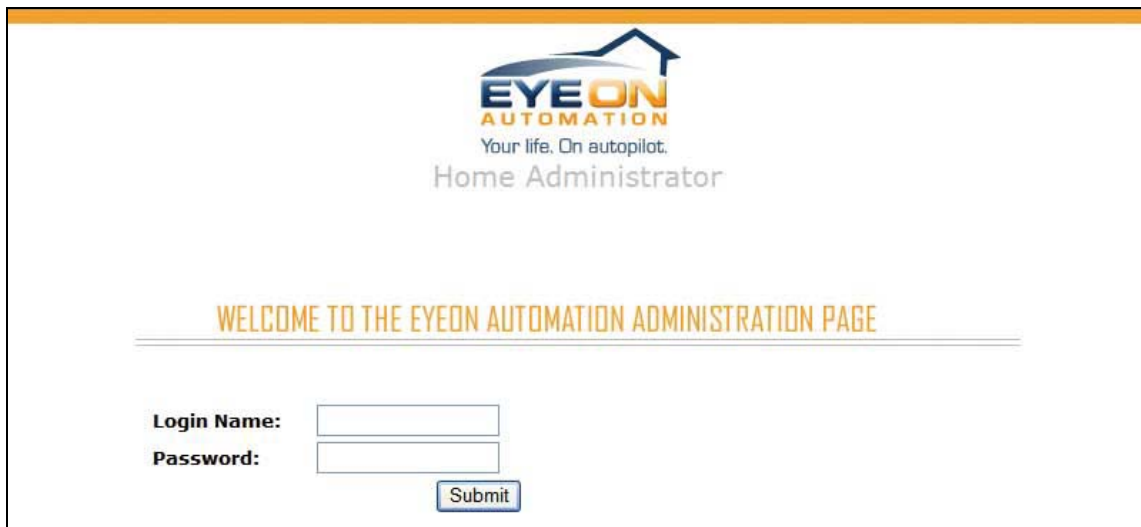
Important: If the Cisco Router is not configured then you will not get a DHCP IP through wireless. You must hard setup your ip address. You could use IP 192.168.130.1, subnet 255.255.255.0, default gateway 192.168.130.254, DNS 4.2.2.2.

6.0 Accessing Administrator Screen

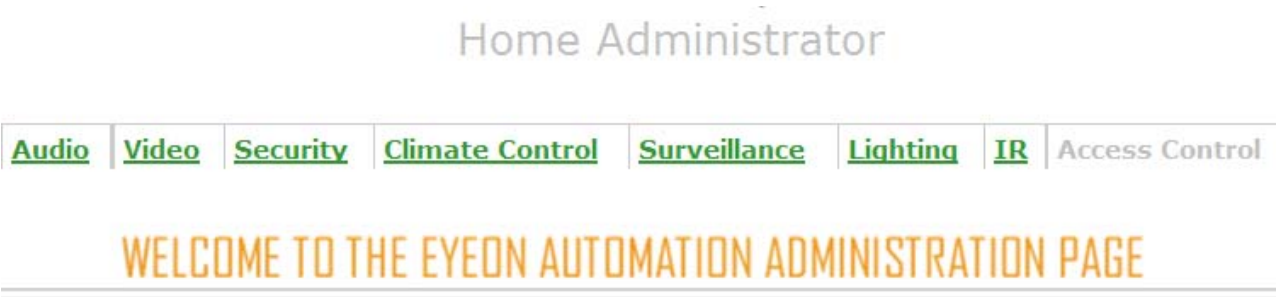
You will need an internet browser to access the secure administrative setup screen at the following URL: <https://192.168.130.90/admin/> or <http://192.168.130.90/website/admin/>. You will be prompted to enter your dealer user name and password to access the EyeOn system.



You will then see the EyeOn Automation Administration login page. Just re-enter the same user name and password to login as an administrator.



After logging in, you will be presented with a welcome screen and navigation options for the EyeOn system. This is where you will set up each component of the system the customer will be using.



Use the links above to manage your EyeOn Home Automation System. For Initial setup begin with the Profile tab and follow the links sequentially. Refer to the Tech Manual for additional administrator setup help. When changes are made to the Administrator screen please update the server to ensure all change will become effective. See the Setup tab to update the server.

This will start your setup for the EyeOn Automation System you are about to configure. By following this step by step process you should be able to install all the server software as well as set everything up to a live system. All of the pre-wiring should have already been completed prior to this install as well as terminated and hooked into the provided equipment.

Now that you're at the Administration screen, start configuring the server by hitting the Profile link. (You must begin with the Profile section in order to populate the subsequent sections (Audio, Video, Security, etc.) with the correct entry forms for the particular subsystems you will be using).

6.1 Profile

The profile tab is where you will indicate the hardware that the customer has chosen to use with their EyeOn Automation system, so that the software program knows to relay to each piece of equipment.

The Profile screen displays your default Unique Name, which is often time referred to as UName. The UName is a unique identifier (in this case, TESTBOX) for remotely accessing your system, so that you can simply enter <https://testbox.eyeonautomation.com> to log on to your EyeOn server. Also, you may have already noticed that the UName cannot be edited from this screen. If the preconfigured name is not preferred, refer to the Resource Center for details on how to customize the Uname to suit your or the customer's preference.

Warning! Changes made will NOT be saved unless you hit the next button on each screen.

TESTBOX Unique Name	
TEST BOX	House Name
Russound CAM6.6/CAV6.6	1 Controller
No Tuner	Tuner
No Tuner	Tuner 2
No Media Server	Media Server
No CD Player	CD/DVD Player
No Video System	Video
No Security System	8 Zones
None	Security
None	
Web Relay	3 Units
No Climate Control	1 HVAC Controller
No Surveillance System	Surveillance
No Lighting Control	Lighting
No IR	IR
No IR	1 Unit
No UPS	UPS
No Pool/Spa	Pool/Spa
Touch Screen WinXP Pro 400Mhz	Touch Screens
Standard Touch Screens Intercom though ELK	Intercom
NStar	3 Readers
EyeOn Server 1.0	Server Version

Next to each device select the device that corresponds with the individual EyeOn system.
Tuner 2 is used if there is a separate tuner involved in the
IR Send is only used if there is more than one IR device in your EyeOn system.

Note: *You must refer to the system hardware or the customer estimate of equipment specifications.*

6.2 Rooms

This is where you will identify each room that has EyeOn components to control.

Setting up rooms:

You will need to add a room on this screen if the room contains any of the following:

- touch screen
- audio
- video distribution
- lighting

Rooms

Add New Room

<input type="text"/>	Sort	<input type="text"/>	
<input type="button" value="Add New"/>			
DEN	Sort	10	[DELETE]
<input type="button" value="Update"/>			
<hr/>			
OFFICE	Sort	20	[DELETE]
<input type="button" value="Update"/>			
<hr/>			
KITCHEN	Sort	25	[DELETE]
<input type="button" value="Update"/>			
<hr/>			
GREAT ROOM	Sort	55	[DELETE]
<input type="button" value="Update"/>			
<hr/>			
GUEST	Sort	75	[DELETE]
<input type="button" value="Update"/>			
<hr/>			
OUTSIDE	Sort	85	[DELETE]
<input type="button" value="Update"/>			

Name each room and give it a sort number.

The sort is the order in which the rooms will appear in the EyeOn control menus. The lowest numbered room will be at the top of the list and the highest numbered room will appear at the bottom of the list. Common rooms that will typically be occupied more often should naturally be placed near the top of the list. It is best not to number the rooms sequentially starting with one because if a room is

added later, all rooms might have to be renumbered. As in the illustration above, sort the rooms using a range of numbers to avoid having to renumber rooms later.

Be careful to type the room name correctly, this is how it will appear on the customer's screens. Also be aware that there is no length limit for naming the room. You should make sure the name is not too long to fit on the button. Sometimes this requires trial and error with a few names to determine what will work.

6.3 Audio

Use the audio tab to specify audio sources with their respective remotes. Also enable keypads with their respective zones and set announcement volume levels. (Different Audio system page will look a little bit different. For example on the Russound page you will not see keypads)

Audio System - Concerto System

Enabled <input type="checkbox"/>	FM/AM/WX	Source 1	Remote:	FM/AM/WX Tuner A <input type="checkbox"/>
Enabled <input type="checkbox"/>	XM	Source 2	Remote:	XM Tuner B <input type="checkbox"/>
Enabled <input type="checkbox"/>	CD PLAYER	Source 3	Remote:	CD Player <input type="checkbox"/>
Enabled <input type="checkbox"/>	MEDIA	Source 4	Remote:	EyeOn Media Server <input type="checkbox"/>
Enabled <input type="checkbox"/>	DEN	Source 5	Remote:	None <input type="checkbox"/>
Enabled <input type="checkbox"/>	SERVER	Source 6		

Enabled <input type="checkbox"/>	Keypad <input type="checkbox"/>	BED 2 <input type="checkbox"/>	Zone 1	Announcement Vol (1-78)	<input type="text"/>	Line Level	No <input type="checkbox"/>
Enabled <input type="checkbox"/>	Keypad <input type="checkbox"/>	OFFICE <input type="checkbox"/>	Zone 2	Announcement Vol (1-78)	<input type="text"/>	Line Level	No <input type="checkbox"/>
Enabled <input type="checkbox"/>	Keypad <input type="checkbox"/>	BED 1 <input type="checkbox"/>	Zone 3	Announcement Vol (1-78)	<input type="text"/>	Line Level	No <input type="checkbox"/>
Enabled <input type="checkbox"/>	Keypad <input type="checkbox"/>	KITCHEN <input type="checkbox"/>	Zone 4	Announcement Vol (1-78)	<input type="text"/>	Line Level	No <input type="checkbox"/>
Enabled <input type="checkbox"/>	Keypad <input type="checkbox"/>	MASTER <input type="checkbox"/>	Zone 5	Announcement Vol (1-78)	<input type="text"/>	Line Level	No <input type="checkbox"/>
Enabled <input type="checkbox"/>	Keypad <input type="checkbox"/>	OUTSIDE <input type="checkbox"/>	Zone 6	Announcement Vol (1-78)	20	Line Level	No <input type="checkbox"/>
Enabled <input type="checkbox"/>	No <input type="checkbox"/>	DEN <input type="checkbox"/>	Zone 7	Announcement Vol (1-78)	<input type="text"/>	Line Level	Yes <input type="checkbox"/>

Line Level Zone 7	Volume Up Mood#	Volume Down Mood#	Volume Mute Mood#
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Disabled <input type="checkbox"/>	No <input type="checkbox"/>	None <input type="checkbox"/>	Zone 8	Announcement Vol (1-78)	<input type="text"/>	Line Level	No <input type="checkbox"/>
Enabled <input type="checkbox"/>	No <input type="checkbox"/>	None <input type="checkbox"/>	Zone 9	Announcement Vol (1-78)	<input type="text"/>	Line Level	No <input type="checkbox"/>
Enabled <input type="checkbox"/>	No <input type="checkbox"/>	None <input type="checkbox"/>	Zone 10	Announcement Vol (1-78)	<input type="text"/>	Line Level	No <input type="checkbox"/>
Enabled <input type="checkbox"/>	No <input type="checkbox"/>	None <input type="checkbox"/>	Zone 11	Announcement Vol (1-78)	<input type="text"/>	Line Level	No <input type="checkbox"/>

Identify each audio source with a descriptive name. Be sure to select if the source is enabled or disabled and specify if the source has a remote or not. You must enable the source for it to work; Sources are enabled by default, so you should disable the source if it is not in use.

If an announcement volume besides the default setting is desired, place a value from 1-78 in the announcement volume box. One is the highest volume setting while 78 is the lowest setting. The default volume can be adjusted on the setup tab. See page 103 for instructions.

If the source is Line level, select Yes from the drop down box. You will then be asked to provide mood numbers for the Volume up, Volume Down and Mute commands. See page 78 for help finding mood numbers.

Despite the number of zones, Zone 16 will be disabled because it is reserved for doorbells.

6.3.1 Nuvo

The NoVo requires you to put which keypads are enabled. You will need to choose to enable or disable keypads. Choose if there is a keypad or not. Then select the room the keypad is in. If this is a line level source please select this room has a keypad.

6.3.2 Russound Sound

If you would like to have audio feedback on the Russound please label the source name **SERVER**. This will tell the server that is the audio feedback source number.

6.3.3 Media Server

If you have a Media Server hooked up to your system and registered in the profile screen you will see the Media Server Text box at the bottom of the Audio screen.

Enabled	NO	None	Zone 12	Vol (1-78)		Level	No
Enabled	No	None	Zone 13	Announcement		Line	No
				Vol (1-78)		Level	
Enabled	No	None	Zone 14	Announcement		Line	No
				Vol (1-78)		Level	
Enabled	No	None	Zone 15	Announcement		Line	No
				Vol (1-78)		Level	
Enabled	No	None	Zone 16	Announcement		Line	No
				Vol (1-78)		Level	

Media Server

192.168.130.6:83

Media Server IP address & Port (i.e. 192.168.130.6:83)

Next

You must enter in the IP Address of the Media Server and the port number in the format that is specified. The default IP address and password cannot be changed on the Media Server. Select **Next** when you are done making changes to the audio setup.

6.4 Video

This screen is used to manage the video inputs in your EyeOn System through the use of Video Distribution. From the Video Menu, name the inputs in your Video System (Example: SATELLITE or DVD) make sure they match to the actual inputs in your video distribution component. Then select the Remotes from the drop-down box correspond with each of the devices. Make sure device is set to “Enabled” to allow for video distribution. If you have not setup the remote for the Inputs please see **Managing Remotes**. Remotes are not required.

[Rooms](#) [Audio](#) [Video](#) [Security](#) [Climate Control](#) [Surveillance](#) [Lighting](#) [IR](#) [Access Control](#) [Screen/PDA](#) [Setup](#)

Video System - FatBoy

Manage Remote

Enabled	Name	Input	Remote
Enabled	SATELLITE	Input 1	Satellite
Enabled	CABLE	Input 2	Cable
Enabled	DVD	Input 3	DVD
Disabled		Input 4	None
Disabled		Input 5	None
Disabled		Input 6	None
Enabled	CAM 1	Input 7	None
Enabled	CAM 2	Input 8	None

Enabled	Room	Output	Remote	Option
Enabled	POOL BEDROOM	Output 1	Pool Bedroom	[Advance]
Enabled	POOL SITTING	Output 2	Pool Sitting	[Advance]
Disabled	OFFICE		None	

Next select which rooms have video output and which remote will be used to control the Video System in that room. If you have not setup the remote for the room please see **Managing Remotes**. Remotes are not required. Make sure to enable the outputs. You must hit “Next” to save all changes. For more information on Advance see the Advance Video Setup Section. Remember to hit the next button first to save all your inputs before hitting Advance.

6.4.1 - Managing Remotes

Managing remotes is used to control input and output devices. You can control them though RS232 and IR. For example, most TV's have infrared capabilities which allow you to control different functions of the TV through IR commands. For better results, devices that have RS232 support can be controlled though RS232.

At the top of the Video screen select the “Manage Remotes” link. Next select Add Remote. Select **IR** or **RS232**

is

Audio

Video

Security

Climate Control

Surveillance

Lighting

IR

Access Control

Screen/PDA

Setup

Video System - FatBoy

Manage Remote

Enabled	Name	Input	Remote
Enabled	SATELLITE	Input 1	Satellite
Enabled	CABLE	Input 2	Cable
Enabled	DVD	Input 3	DVD
Disabled		Input 4	None
Disabled		Input 5	None

6.4.2 For IR

Name the Remote (example: LG DEN or INTEGRA). The remote will only be visible from the Touch Screen and PDA. You will not be able to see the remote on the web-based software or mobile phone. Select which remote layout you want, see below.



Hit 'Next'. If you have already learned the IR codes then continue, if not go to section **Learning Codes**. Select the appropriate code from the drop down box. Select the Port. ** if you are unsure which port to use Click on the 'IR' link at the top of the screen to see a list of devices and corresponding ports.* You can also choose to run a mood by selecting "RUN MOOD". You will be required to enter in the mood number in the box below where it says "RUN MOOD." An Example of a Mood that would be useful is when you pause your DVD. Instead of just sending an IR command you could create a mood that brought up the lights in the room so people can see when the movie is paused.



[Profile](#)
[Rooms](#)
[Audio](#)
[Video](#)
[Security](#)
[Climate Control](#)
[Surveillance](#)
[Lighting](#)
[IR](#)
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[Screen/PDA](#)
[Setup](#)

Remote Setup

Test Remote

You must have already learned to IR codes into the JDS from the Remote IR screen from the web access before building your remote.

Up	<div> <div>RUN MOOD</div> <div></div> </div>	
Down	<div> <div>JDS Unit 1</div> <div></div> </div>	<div> <div>Port 1</div> <div></div> </div>
Left	<div> <div>JDS Unit 1</div> <div></div> </div>	<div> <div>Port 1</div> <div></div> </div>
Right	<div> <div>JDS Unit 1</div> <div></div> </div>	<div> <div>Port 1</div> <div></div> </div>
Enter	<div> <div>JDS Unit 1</div> <div></div> </div>	<div> <div>Port 1</div> <div></div> </div>
Exit	<div> <div>JDS Unit 1</div> <div></div> </div>	<div> <div>Port 1</div> <div></div> </div>
Mute	<div> <div>JDS Unit 1</div> <div></div> </div>	<div> <div>Port 1</div> <div></div> </div>
Menu	<div> <div>JDS Unit 1</div> <div></div> </div>	<div> <div>Port 1</div> <div></div> </div>
Volume Up	<div> <div>JDS Unit 1</div> <div></div> </div>	<div> <div>Port 1</div> <div></div> </div>

If you don't have a mood number, please see the **Getting Mood Number** section. When you are done selecting all IR codes/moods hit "Finish" at the bottom of the screen to save your remote.

6.4.3 Learning Codes

To learn codes into your EyeOn system you must be in front of the Infrared Expander. Select "Setup" from the web based software menu. Next Select "Remote IR" from the menu on the left.



Scroll down to the “Send IR Command Unit 1” list.


[Activated]	PAUSE	113	None	[Delete] [Edit]
[Activated]	PLAY MED	118	None	[Delete] [Edit]
[Deactivated]	Not Completed	144	None	[Delete] [Edit]


[\[Add New Remote IR\]](#) [\[Refresh Page\]](#)


SEND IR COMMAND UNIT 1


Status	Scheduling Name	Remote IR	Status	Commands
Active	DELL ON	21	None	[Delete] [Edit]
Active	DELL OFF	22	None	[Delete] [Edit]
Active	DVR CH U	29	None	[Delete] [Edit]
Active	DVR CH D	32	None	[Delete] [Edit]
Active	DELL INPUT	26	None	[Delete] [Edit]
Active	INT CAM	25	None	[Delete] [Edit]


Hit “Add New IR Send Unit 1” link at the bottom of the screen. Name the IR (example: CAB-CHU or DVD-PLAY). Aim the remote at the IR Expander and press the button you should see a green light. You might need to wait a few seconds to hit the remote button. You must repeat this process for all codes. Hit “Continue” to save the command.





 SCHEDULES


 MOODS


 REMOTE IR


 TRIGGERS


 SCENES

SEND IR COMMAND UNIT 1

1 SETUP REMOTE IR

IR Name

Aim programmed remote into the **InfraRed Xpander Unit 1**. Press the button several times that you are about to program. Make sure you don't get a green light. Click Continue To Program

◀ BACK

CONTINUE ▶

After you learn all of the codes continue with the IR Remote Managing process.

6.4.4 Configuring RS232

Begin by naming the remote. The remote will only be visible from the Touch Screen and PDA. You will not be able to see the remote on the web-based software or mobile phone.

Device

Next select the device you would like to control with the remote. Use the drop down box to see a complete list. If the device is not in the list then EyeOn is not integrated. Please refer to the Hardware Integration form on the resource center.

Com Port

The com port is used to communicate with the device. If the device is hooked in to a RS232 port on the EyeOn Server enter the number of the port. The number should be on the cable coming from the server. If you are using RS232 Serial over IP enter in the IP address and port number separated by an '!'. (Example 192.168.130.140!10001)

Device ID

A Device ID would be used for identifying different devices. As an example, this is especially helpful when you have two TV's on the same com port, you would have the ability to set up different device ID's for each of the TV's. The Device ID's would be critical in distinguishing between the two TV's. For the Device ID refer to page 115 of the Tech Manual.

[Profile](#) [Rooms](#) [Audio](#) [Video](#) [Security](#) [Climate Control](#) [Surveillance](#) [Lighting](#) [IR](#) [Access Control](#) [Screen/PDA](#)

Remote Setup

TV RemoteRemote Name

Pick from current library's. You must put in the com port that the device is hooked to. You should see the com port label on the port the devices plugs into. Only put in the numeric number for the com port. Put in the ID of the device if there is an id.

If you would like to use RS232 over IP instead put in the IP:Port (i.e. 192.168.130.140!10001) for the com port

LG Plasma/LCDCom Port40!10001Device ID**

If the device has the ability to check if it is still responding you can click the box and it will check each hour. You can not check devices that are already in the hardware profile ☐

You can use different IR commands for Volume control if needed.

Volume Up5287Mood #

Volume DownMood #

Volume MuteMood #

Next

Cancel

6.4.5 Proactive Monitoring

Select the check box if you would like to proactively monitor this device. Selecting the box, allows the system to see if the device responds when it is turned off. If the device does respond, Proactive Monitoring is recommended. This will allow you to get updates within one hour of a device malfunction via email. Very often Proactive Monitoring alerts you before the customer even realizes there is a problem.

If the device does not respond when it is in the off position do not check the box. For example, your TV will not respond to RS232 when the device is turned off, so this device could NOT be proactively monitored. Also, *you cannot check devices that are already in the Hardware Profile. The device will not respond if it is in the Hardware Profile.*

6.4.6 Volume Overrides

If you are using a sound source other than your TV, for example Surround Sound, you will need to program in moods to adjust the volume on your Surround Sound using your TV remote. To get the mood number, see the **Getting Mood Number** section. Enter in the appropriate mood numbers and then hit “next” to save the remote. If you have not set up the moods continue to the **Setup Volume Moods Section** below.

Setup Volume Moods

Select “Setup” from the web based menu. Next select “Moods” from the list on the left. “Add New Mood”. Begin by naming the mood (example: VOLUP or MUTE). Select which room the Mood will be associated with. Select “Independent” for the mood option. Select Resettble “NO”. Select “NO” for Mood Visible option so that the mood will not be visible on the Touch Screen, PDA, Mobile Software, and Web Base. Add appropriate comments and hit “Continue”.

EYE ON AUTOMATION
Your life. On autopilot.

SCHEDULES MOODS REMOTE IR TRIGGERS SCENES

MOODS

1 SETUP ROOM 2 SETUP EVENTS

Mood Name:

Select Room:

Mood Option:

Self Cancellation:

Mood Visible:

Comments:

Select a Room the Mood will be associated with

BACK CONTINUE

Select Infrared then “Add” the corresponding commands (Example: for VOL UP find the command that turns the volume up 1 unit on the Integra or Audio Source).

MOODS

1 SETUP ROOM 2 SETUP EVENTS

Event	Commands
Send IR Command Unit 1 INT VOL U to port 1	<button>X DELETE</button> <button>ADVANCE SORT</button>
<button>TEST EVENTS</button>	

ADD NEW EVENTS

EMAIL	DEVICES	LIGHTING	CLIMATE	VIDEO	REMOTES
AUDIO	TUNER	SCHEDULE	SECURITY	CAMERAS	SCREENS
FEEDBACK	MOODS	TRIGGERS	INFRARED	ADVANCED	TIMERS

View by Room: ALL

-Send IR Unit 1	DVR, DVD, INTEGRA	Add
--DELL ON	DVR, DVD, INTEGRA	Add
--DELL OFF	DVR, DVD, INTEGRA	Add
--DVR CH U	DVR, DVD, INTEGRA	Add
--DVR CH D	DVR, DVD, INTEGRA	Add
--DELL INPUT	DVR, DVD, INTEGRA	Add
--INT CAM	DVR, DVD, INTEGRA	Add
--INT DVR	DVR, DVD, INTEGRA	Add

Another option is to use Remotes tab to add the commands. You can only do this if you have programmed in the remote though **Managing Remotes**. This will allow you to adjust the volume of RS232 devices. Depending on how quickly and drastically the volume changes per command, you may have to add the command to the mood a couple of times and then set a wait timer. Different devices may vary; use trial and error to determine the best fit for your system and device. For example, with the Integra we recommend adding the Volume up command 4 times with a 1 sec Wait Timer for the VOLUP Mood. The wait timer allows the system to properly adjust before sending another VOLUP command.

For example, if you selected Resettable "YES" and then hit the remote rapidly the volume would continue to rise even after you have stopped pressing the button. This happens because the amount of time it takes you to press the remote is shorter than the time it takes to adjust the volume. Each time you press the button the remote sends a command to turn the volume up 4 times. Instead of waiting a second, the mood cancels itself and runs again sending the volume up command. So if you hit the remote 5 times in one second the volume would continue to rise for a couple of seconds after you were done. You will want to make sure you setup the Mood for Resettable "NO".

When you are done setting up the Events for the Mood hit **Save Mood**.

Getting Mood Number

To get the Mood Number scroll your mouse over the “Activated” or “Deactivated” link next to the Mood you want. The number is displayed in the bottom left hand corner of the Status Bar, see screen shot below.

[Activated]	↑ ↓	VISITOR	ROOM
[Activated]	↑ ↓	DAYTIME HOME	ROOM
[Activated]	↑ ↓	NIGHT MOOD	INDEP
[Activated]	↑ ↓	AWAY	INDEP
[Activated]	↑ ↓	UNLOCK	ROOM
[Activated]	↑ ↓	PARTY	INDEP

https://mills2.eyenautomation.com/schedule.cgi?sch=2835&edit=2&page_type=moocs

The Mood number is the 4 digit number that is circled in the example above. The Mood number is unique to each Mood.

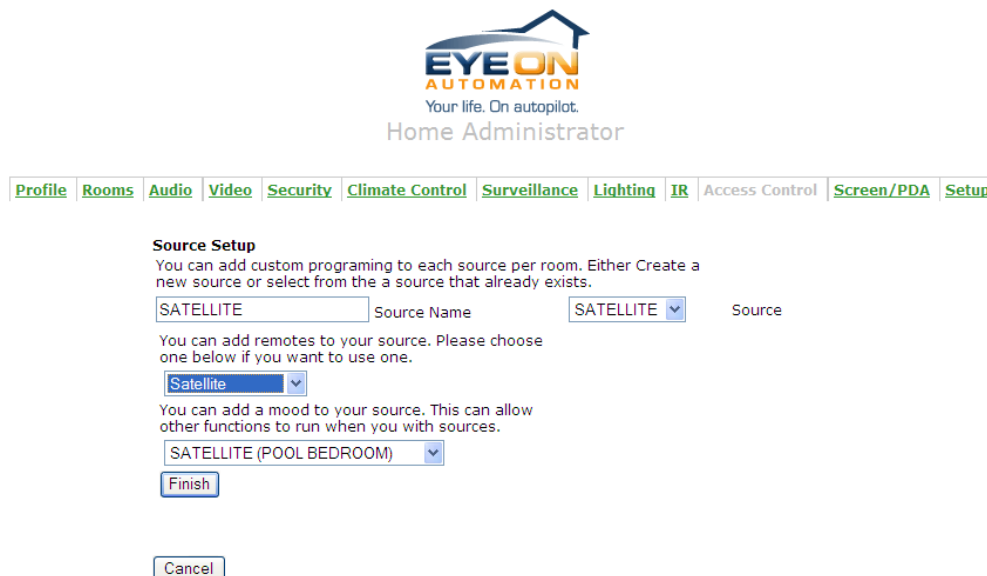
6.4.7 Advance Video Setup

Use the “Advance” link to set up the advanced source options. This screen allows you to setup Moods to override normal video destination functions. For example, you might want to set up a mood that turns the TV to the ‘on’ position and to the correct input, lowers the lights and starts a DVD all at the touch of a button. This will save you the hassle of having to turn on each device individually. If you do not use the Advance Setup the current remotes will just switch the inputs on the Video Distribution box. You cannot replace a local source remote when you don’t have a source, which is hooked up to the Video Distribution, using the same remote.



The screenshot shows the EYEON HOME AUTOMATION Home Administrator interface. At the top is the logo with the tagline "Your life. On autopilot." Below the logo is a navigation bar with tabs: Profile, Rooms, Audio, Video, Security, Climate Control, Surveillance, Lighting, IR, Access Control, Screen/PDA, and Setup. The "Video" tab is selected. The main content area is titled "Advance Video Setup for Output 1". It has two columns: "Source Name" and "Options". Under "Source Name" are: SATELLITE, CABLE, DVD, CAM 1, CAM 2, and OFF. Under "Options" are links: [Edit, Delete], [Edit, Delete], [Edit, Delete], [Edit, Delete], [Edit, Delete], and [Edit, Delete]. Below these columns are buttons: "Add Source", "Save Lock", and "Back". There are also checkboxes for locking volume/mute and power buttons for all remotes.


Select to “Add Source” or “Edit” a source.



The screenshot shows the EYEON HOME AUTOMATION Home Administrator interface. At the top is the logo with the tagline "Your life. On autopilot." Below the logo is a navigation bar with tabs: Profile, Rooms, Audio, Video, Security, Climate Control, Surveillance, Lighting, IR, Access Control, Screen/PDA, and Setup. The "Video" tab is selected. The main content area is titled "Source Setup". It contains the text: "You can add custom programming to each source per room. Either Create a new source or select from the a source that already exists." Below this is a form with a text input field containing "SATELLITE" and a dropdown menu also showing "SATELLITE". Below the form is the text: "You can add remotes to your source. Please choose one below if you want to use one." Below this is a dropdown menu showing "Satellite". Below the dropdown menu is the text: "You can add a mood to your source. This can allow other functions to run when you with sources." Below this is a dropdown menu showing "SATELLITE (POOL BEDROOM)". At the bottom are buttons: "Finish" and "Cancel".

First, name the source, then select the source from the drop down box. Next you will have to add a remote; if you do not select a remote the source will not have a remote next to it. You must add a

mood to your source to adjust the video distribution and any other functions you would like to perform. See “**Moods for Advance Video Setup**” to set up Moods.


Your life. On autopilot.
Home Administrator

Profile Rooms Audio Video Security Climate Control Surveillance Lighting IR Access Control Screen/PDA Setup

Source Setup
You can add custom programming to each source per room. Either Create a new source or select from the a source that already exists.

Source Name

SATELLITE

 Source

You can add remotes to your source. Please choose one below if you want to use one.

Satellite

You can add a mood to your source. This can allow other functions to run when you with sources.

SATELLITE (POOL BEDROOM)

Finish

Cancel

Once you click Add Source there are two options; New Source and Override source. An example of a source override would be selecting a device that is hooked up to the Video Distribution (example: Satellite and Cable Box). An example of a new source would be a Local Source such as a DVD player that is actually hooked up to the TV in the room.



The screen shot above shows what the remotes look like on the Touch Screen after they are setup and added to the system through the Admin screen.

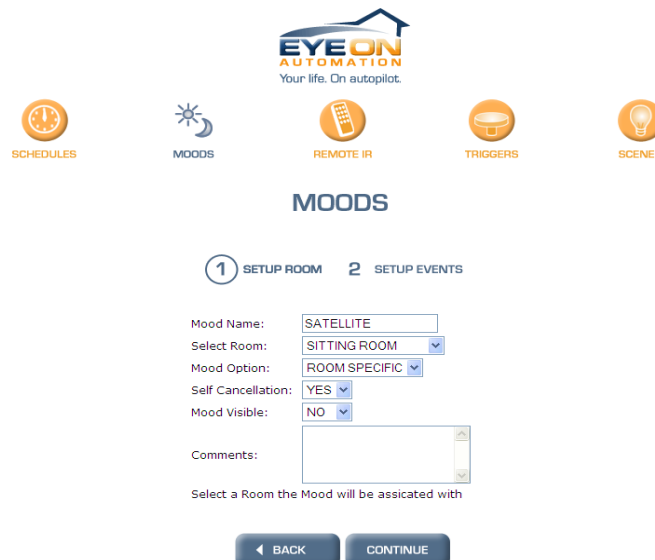
Lock Options

There are 2 checkboxes that give you the option of locking the volume and power functions. Selecting the first check box will lock the volume and mute button on all of the sources. This means that no matter which remote you are using the volume will be adjusted on the TV or surround sound rather than adjusting volume on different sources such as a cable box or satellite.

The power lock uses the same concept. When you select power off on one remote it will turn the power off for the TV or Projector.

Moods for Advance Video Setup

From the setup screen on the web based software select the moods button. At the bottom of the screen select “add mood”. Create a mood name and then select which room it is going to be used in. The Mood Option should be “Room Specific” in some cases. Room specific moods cannot be run in conjunction with another room specific mood. If you try to run two moods that are room specific at the same time, the first mood will be cancelled and the second mood will run. Keep this in mind when you are setting up your mood options.



The screenshot shows the EYE ON AUTOMATION web-based software interface. At the top, the logo reads "EYE ON AUTOMATION" with the tagline "Your life. On autopilot." Below the logo are five icons representing different features: SCHEDULES (clock), MOODS (sun/moon), REMOTE IR (remote control), TRIGGERS (lightning bolt), and SCENES (lightbulb). The "MOODS" icon is highlighted. Below the icons, the word "MOODS" is displayed in large blue letters. Underneath, there are two tabs: "1 SETUP ROOM" and "2 SETUP EVENTS". The "1 SETUP ROOM" tab is active. The form contains the following fields:

- Mood Name:
- Select Room:
- Mood Option:
- Self Cancellation:
- Mood Visible:
- Comments:

Below the form, there is a label "Select a Room the Mood will be associated with" and a dropdown menu. At the bottom, there are two buttons: "BACK" and "CONTINUE".

Select the Resettable as “YES” if you would like the mood to cancel it’s self. One example where this would be recommended is when setting up a Power On Mood. This is helpful if the device did not response the first time for some reason. If you did not have Resettable set to “YES”, you would have to wait until the entire mood ran before you could run it again.

Event	Commands
↓ Video SITTING ROOM switch to SATELLITE	X DELETE
↑↓ Remote 2nd Floor Sitting Input:2 Component1	X DELETE
↑↓ Remote 2nd Floor Sitting Power On	X DELETE
↑↓ Wait Timer Hour(s):0 Minute(s):0 Second(s):6	X DELETE
↑ Remote 2nd Floor Sitting Input:2 Component1	X DELETE

TEST EVENTS ADVANCE SORT

ADD NEW EVENTS

EMAIL DEVICES LIGHTING CLIMATE VIDEO REMOTES
 AUDIO TUNER SCHEDULE SECURITY CAMERAS SCREENS
 FEEDBACK MOODS INFRARED ADVANCED TIMERS

View by Room: All

In the example above we begin by first sending a command to switch the Video Distribution to the correct input (Satellite)

The next thing we do is switch the input on the TV to satellite. This will commentate a TV that is already in the On position.

Then we power on the components in the selected room (example: TV) incase they are not already on. Toggling can be an issue, to work around this, use discreet IR commands to set up two separate buttons for on and off. Not all TVs have discreet IR commands, but many do. If the TV is already turned on sending a discreet command won't affect the status of the power button. If the TV were in the off position this command would turn it on. If you are using RS232 most all TVs have discreet on and off commands. You will find these under the Remote Tab.

In the event that your TV was not originally on, we want to resend the command to change the input of your TV. If it was off it would not have received the first command we sent. Before this command is sent set a timer that corresponds with the amount of time your TV takes to fully power on. This typically is about 6-9 seconds. Note; some devices will turn on when you send the first input commands. Check to see if your device turns on with the input command.

Save the Mood when you are finished, using the button at the bottom of the screen.

6.5 Security

The security is one of the most advanced screens. Start by naming the Areas. In most cases there will only be one area. Different areas have the ability to operate independently of each other. You will have to set up every security device that is in the house. Next, name the zone; this is what will be displayed in the security log. Then select the Area from the drop down box.

Security

Area 1 Name	<input type="text" value="AREA 1"/>
Area 2 Name	<input type="text"/>
Area 3 Name	<input type="text"/>
Area 4 Name	<input type="text"/>
Area 5 Name	<input type="text"/>
Area 6 Name	<input type="text"/>
Area 7 Name	<input type="text"/>
Area 8 Name	<input type="text"/>

Motion Sensor	▼	GREAT ROOM	Zone 1	Area 1	▼
None	▼		Zone 2	Area 1	▼
Photo Sensor	▼	PHOTO SENSOR	Zone 3	Area 1	▼
None	▼		Zone 4	Area 1	▼
Doorbell 1	▼	DOORBELL 1	Zone 5	Area 1	▼
Garage Sensor	▼	GARAGE 1	Zone 6	Area 1	▼

Motion Sensor

This is to monitor the status of motion in a particular area.

Door Sensor

This is used to check whether doors are in the open or closed position. This sensor, however, does not have the ability to open or close the door.

Door Lock Sensors

This is to see the door lock status. It will show you on the touch screen, web-based, mobile or PDA program if the door is locked or unlocked.

Doorbells

This is where the doorbell is wired into the security system. Please select which doorbell you want for each doorbell (Doorbell 1,2, or 3).

Intercom

This is for the push button of the intercom system. This is only used on the old intercom systems.

Garage Sensor

Put the Garage Sensor and the appropriate sensor name. For example, Garage 1 would be a good name to keep up with it.

Power Monitor

Always make power monitor zone 15. This is used to see if there is a power loss. The new way of monitoring power is through a UPS.

Pool Alarm

This is used for the pool sensor.

Photo Sensor

This is used to detect natural light in order to differentiate between day and night.

Other Alarms

This should be used for Zone 16 fire alarm.

Print View

This is so you can print out a list of the Zones to give to the security company for monitoring

AC Locks

This is used for the locks to turn. Lock/unlock them through Access Control. Access Control Locks are Maglock controlled. Remember you might need to wire up the locks with voltage.

Enable Wireless Key FOB

If they are using the wireless key FOB you must select this option.

Push Button Sensor

This is for using a button as a sensor. When the button is pressed the sensor is activated.

After you finish setting up the Input you will have to set up the outputs. Begin by selecting the check boxes that correspond with the Address(es) of the Output(s) cards that are being used. Hit **Update Outputs** before you continue setting up the outputs.

Select the Device of each output and then name it accordingly. If necessary select a sensor.

- ☒ Address 2 (17-32)
- ☐ Address 3 (33-48)
- ☐ Address 4 (49-64)
- ☐ Address 5 (65-80)
- ☐ Address 6 (81-96)
- ☐ Address 7 (97-112)
- ☐ Address 8 (113-128)
- ☐ Address 9 (129-144)
- ☐ Address 10 (145-160)
- ☐ Address 11 (161-176)
- ☐ Address 12 (177-192)
- ☐ Address 13 (193-208)

Update Outputs

Voice Siren	<div><div></div>VOICE</div>	Output 1	<div>None</div>
		Sensor	
Outside Siren	<div><div></div>OUTSIDE</div>	Output 2	<div>None</div>
		Sensor	
Disable	<div><div></div></div>	Output 3	<div>None</div>
		Sensor	
Mic	<div><div></div>CLINTON</div>	Output 7	
Mic	<div><div></div>DEN</div>	Output 8	
Mic	<div><div></div>FRONT DOOR</div>	Output 9	

Garage

Select this for the output that controls the garage. You will also need to select the Sensor for this option. This will tie the garage sensor to the correct controlling device.

Gate Type 1

This option works similar to the Garage option in that it causes the output relay to energize for 5 seconds before falling back to a de-energized state. For most gate controllers, this causes the gate to fully open for a given amount of time (determined by the delay programmed into the gate controller by the gate installer), before closing automatically.

Gate Type 2

With this option, once the output relay is energized, it will stay in an energized state until it is commanded to de-energize by the EyeOn control software (via the touch screen, scheduling software, etc.). By using this option, the end-user can choose to leave the gate open for extended periods of time, which is perfect for the occasional party.

Voice Siren

Select this for the output with the voice siren.

Outside Siren

Select this for the output with the outside siren.

Touch Screen

This is used to power cycle the touch screens. Select this option for each Touch Screen output.

Announcement

This is used for the Russound audio paging option.

Shade Type 1 (5 sec)

This is used for shades that require different outputs for up and down. You must hook this up by hooking up the up relay to the first output and the down relay to the output directly under the up output. This option closes the relay for 5 seconds and then opens it up. Use trial and error to determine which Shade Type is the best option. Shades require 2 relays: one for the UP command and one for the DOWN command. The commands must be setup back to back with the UP command first. Shades will show up on the devices screen.

Shade Type 1 (1sec)

This is used for shades that require different outputs for up and down. You must hook this up by hooking up the up relay to the first output and the down relay to the output directly under the up output. This option closes the relay for 1 second and then opens it up. Use trial and error to determine which Shade Type is the best option. . Shades require 2 relays: one for the UP command and one for the DOWN command. The commands must be setup back to back with the UP command first. Shades will show up on the devices screen.

Door Release

This is used for closing doors that are being held open. When the relay is tripped it releases the door from the open position, allowing it to close.

Relay

This is used for different devices that can be triggered by relays. An example would be a strobe.

6.6 WebRelay

When a WebRelay is added to the EyeOn system it shows up under the Security tab, as seen below.

Web Relay

Relay Type

WebRelay

Name

TEST1

Full IP Address

192.168.134.188

Garage Sensor

GARAGE 1

Garage

GARAGE 1

Input 1

Output 1

Sensor

WebRelay 1 Normally Open

Relay Type

WebRelay-Quad

Name

TEST2

Full IP Address

192.168.134.189

Disable

6

Output 1

Sensor

None

Disable

Output 2

Sensor

None

Disable

Output 3

Sensor

None

Disable

Output 4

Sensor

None

Relay Type

WebRelay-Quad

Name

TEST3

Full IP Address

192.168.134.190

Garage

7

Output 1

Sensor

None

Disable

Output 2

Sensor

None

Disable

Output 3

Sensor

None

Disable

Output 4

Sensor

None

Update WebRelay

After each type of relay is selected from the drop down box(es) the “Update WebRelay” button must be selected before the Inputs/outputs can be

Climate Control

Use the climate control tab to name and direct the climate controls.

Climate Control

Enabled ▾	MAIN	Controller 1	Address: 2 ▾	[How to set address]
Enabled ▾	UPSTAIRS	Controller 2	Address: 3 ▾	[How to set address]
Disabled ▾		Controller 3	Address: 2 ▾	[How to set address]
Disabled ▾		Controller 4	Address: 2 ▾	[How to set address]
Disabled ▾		Controller 5	Address: 2 ▾	[How to set address]
Disabled ▾		Controller 6	Address: 2 ▾	[How to set address]
Disabled ▾		Controller 7	Address: 2 ▾	[How to set address]
Disabled ▾		Controller 8	Address: 2 ▾	[How to set address]
Disabled ▾		Controller 9	Address: 2 ▾	[How to set address]
Disabled ▾		Controller 10	Address: 2 ▾	[How to set address]
Disabled ▾		Controller 11	Address: 2 ▾	[How to set address]
Disabled ▾		Controller 12	Address: 2 ▾	[How to set address]
Disabled ▾		Controller 13	Address: 2 ▾	[How to set address]
Disabled ▾		Controller 14	Address: 15 ▾	[How to set address]
 Enabled ▾		Outdoor Sensor	Address: 1	

Next

Enable all active climate systems. Select the address the climate is set to. For more information on this, see page 42. If there is an outdoor sensor include that here as well. An outdoor sensor will always use Address 1, so any other climates should be addressed starting with 2. Press Next to save changes.

6.7 Surveillance (PC DVR)

Surveillance

DVR Private Ip address:

192.168.130.53

DVR Public Address & Port:

i.e. mills2.eyeaautomation.com:8883

uname.eyeaautom

DVR Security Code:

1234

Enabled ▾	FRONT CAM	Camera 1	PTZ:	No ▾
Enabled ▾	GARAGE CAM	Camera 2	PTZ:	Yes ▾
Disabled ▾		Camera 3	PTZ:	Yes ▾
Disabled ▾		Camera 4	PTZ:	Yes ▾
Disabled ▾		Camera 5	PTZ:	Yes ▾
Disabled ▾		Camera 6	PTZ:	Yes ▾
Disabled ▾		Camera 7	PTZ:	Yes ▾
Disabled ▾		Camera 8	PTZ:	Yes ▾
Disabled ▾		Camera 9	PTZ:	Yes ▾
Disabled ▾		Camera 10	PTZ:	Yes ▾
Disabled ▾		Camera 11	PTZ:	Yes ▾
Disabled ▾		Camera 12	PTZ:	Yes ▾
Disabled ▾		Camera 13	PTZ:	Yes ▾
Disabled ▾		Camera 14	PTZ:	Yes ▾
Disabled ▾		Camera 15	PTZ:	Yes ▾
Disabled ▾		Camera 16	PTZ:	Yes ▾

Next

1. Put in the private IP address of the DVR. This is so the EyeOn Server can talk to the DVR over TCP/IP. The normal default IP is 192.168.130.53. Next put in the public domain name and port. An example is uanme.eyeaautomation.com:8883. Make sure you put :8883. You will find the DVR security code by logging in to the DVR server and go to c:\inetpub\wwwroot and look for the directory for the pass code. Should be something like EhitiE9h. Pass codes can also be located in C:\Program Files\Video Insight\Video Insight Support\. If it is not found in one of those places check the IIS setup.
2. Fill in the appropriate camera(s) name.
3. Enable each camera that is active. If it is a pan/tilt/zoom camera, select yes. Press next to save changes.

6.8 Lighting

6.8.1 Insteon Lighting

This window lists all the lights in each room.

Lighting

PLM Number: 77 77 77

Run Response Test: [\[Run, Test Results\]](#)

Run Status Test: [\[Start Over, Test Results\]](#)

DEN

MAIN LIGHT (00 41 5A) [\[EDIT, DELETE, ADD SLAVE, PROGRAM, READ DB, SHOW DB\]](#)

SLAVE SWITCH (00 41 3D) [\[EDIT, DELETE, READ DB, SHOW DB\]](#)

SLAVE SWITCH (00 41 57) [\[EDIT, DELETE, READ DB, SHOW DB\]](#)

FIRE PLACE (00 41 58) [\[EDIT, DELETE, ADD SLAVE, PROGRAM, READ DB, SHOW DB\]](#)

HALLWAY (00 38 67) [\[EDIT, DELETE, ADD SLAVE, PROGRAM, READ DB, SHOW DB\]](#)

SLAVE SWITCH (00 41 5D) [\[EDIT, DELETE, READ DB, SHOW DB\]](#)

UTILITY LIGHT (00 41 5C) [\[EDIT, DELETE, ADD SLAVE, PROGRAM, READ DB, SHOW DB\]](#)

SLAVE SWITCH (00 41 1D) [\[EDIT, DELETE, READ DB, SHOW DB\]](#)

TREE LIGHT (01 2F F3) [\[EDIT, DELETE, ADD SLAVE, PROGRAM, READ DB, SHOW DB\]](#)

ENTRY (06 6D 16) [\[EDIT, DELETE, PROGRAM, READ DB, SHOW DB\]](#)

APPLIANCE (07 85 28) [\[EDIT, DELETE, PROGRAM, READ DB\]](#)

[\[ADD MASTER\]](#)

OFFICE

MAIN LIGHT (00 41 37) [\[EDIT, DELETE, ADD SLAVE, PROGRAM, READ DB, SHOW DB\]](#)

[\[ADD MASTER\]](#)

KITCHEN

MAIN (00 43 3D) [\[EDIT, DELETE, ADD SLAVE, PROGRAM, READ DB, SHOW DB\]](#)

SLAVE SWITCH (00 41 41) [\[EDIT, DELETE, READ DB, SHOW DB\]](#)

SLAVE SWITCH (00 41 3E) [\[EDIT, DELETE, READ DB, SHOW DB\]](#)

UNDERCOUNTER (00 41 63) [\[EDIT, DELETE, ADD SLAVE, PROGRAM, READ DB, SHOW DB\]](#)

MAIN DINING (00 41 34) [\[EDIT, DELETE, ADD SLAVE, PROGRAM, READ DB, SHOW DB\]](#)

SLAVE SWITCH (00 41 32) [\[EDIT, DELETE, READ DB, SHOW DB\]](#)

CHANDLIER (04 1D DA) [\[EDIT, DELETE, ADD SLAVE, PROGRAM, READ DB\]](#)

PLM Number

Make sure that you have a 6-digit PLM number at the top of the setup page. If you do not see the PLM number at the top of this page, you will need to go to the Setup page, click [\[Event Log\]](#), and click the [Detected Hardware](#) link.

Add Master

To add a new master light, click [\[ADD MASTER\]](#) under the appropriate room. Enter a name for the light, while avoiding the word "light" in the name. Please keep in mind that there is no max length, but you can easily go over the number of letters that can fit on the touch screen. An average of 11-12 letters is a good length.

Next, select what type of switch you are programming (i.e. dimmer, relay or keypad).

If you are programming a LampLinc or ApplianceLinc, you will need to choose Program Code By box-> and type in the code from the back of the device. When entering the code do not put spaces or periods between the numbers, as it appears on the device. In other words, if the formatting is 11.22.33, it should be entered 112233.

The next option on this page is Sort. You will be able to sort the lighting list to move a light up and down in the list on the touch screen, web-based screen, PDA, and mobile device. The lower the number, the closer the light is to the top of the list. We recommend using intervals of five, so that any switches added in the future can easily be placed between existing switches in the list.

Now click the Add Light button. *Please read and follow the on-screen instructions that apply to the type of light you are adding.* For example, if you are adding a Master Dimmer you will need to press and hold the reset button on the dimmer switch for 3 seconds until the indicator LED starts flashing in the ON position. From here you would need to press the Add Light button above the instructions. The screen that appears will give you information regarding the light that was pressed. Again, click Add Light at the top to complete the process. If the Add Light attempt was unsuccessful, the status will appear next to the word "Lighting" at the top of the screen. If a "Device Not Found" error occurs, hit the Refresh link to retry. If the device still isn't found, check the Access Points for proper phasing and then try adding the light again.

Add Slave

If you have a slave switch (a switch that is not the master switch in a three-way, four-way, or five-way circuit), click the Add Slave link for the switch you want to be its master. Use the drop-down boxes to choose the slave switch type and program code, which, in this case, should be "Program Code By Light". Hit the Add Light button and read the on-screen instructions, as outlined in the section above.

Delete

The Delete link will simply delete the light. If you delete a light, it is recommended that you reset that light switch to factory default. If you delete a slave or master, it is recommended that you reset all the switches in that master/slave group to factory default.

Edit

Use the Edit link to change the light's name, type, and sorting number. There is also an option to "Include in all room lights?" which you can use to keep a light from being controlled by the All button on the individual room and All screens. There's also an option to Relink To PLM, if the light is not returning statuses like it should. This button is also necessary for adding KeypadLinc buttons to the server. This involves editing the light and using the Relink To PLM button to link all of the individual buttons to the PLM. To make this happen, hit the Relink to PLM button under the Edit screen. You will need to press and hold each button you are trying to program until it *starts* blinking. If it says "Not found" please repeat the process until the button is linked successfully to the PLM.

Important! The button indicator lights must be in the off position when linking the KeypadLinc buttons to the PLM.

Program

After adding a light, you will need to program it. Programming lights can be a time consuming process, so please be patient. Time increases exponentially each time a slave is added to a master.

In order to save time, after all lights are added, hit the program link on all lights. Lights will be programmed one at a time, but in a continuous order. This saves the time of having to wait for each light to program fully before hitting program on the next light.

As shown in the Color Key below, the light will be listed in red until you program it. Once it is programmed, its status will turn green and, if there are errors, it will turn dark red.

If an error occurs, first try reprogramming the light. If that does not work, try setting it to factory default, then relink and program the light switch again.

Caution! Although it may be prudent to program the first few lights in a new installation to insure the integrity of the lighting communications, we recommend that you wait until the end of the day to click the Program link for the bulk of the lights. One reason is that the reliability of the programming process is diminished when lights are being operated manually. Another reason is that the programming time for a moderate-to-large installation can take anywhere from 8-12 hours.

COLOR KEY				
Errors Found	Not Programmed	Programming	Pending Programming	Programmed

WARNING! DO NOT DO A FULL REBOOT, SOFT SERVER REBOOT OR DETECT THE HARDWARE DURING PROGRAMMING. THESE ACTIONS WILL CANCEL THE PROGRAMMING PROCESS AND ALL CHANGES WILL BE LOST!

Read DB/Show DB

This is used to see if there are problems with the lights. The Show DB option only appears after you have initiated a Read DB. If you are having trouble with a particular light, this information will alert you of any possible errors.

General Notes

You need to be very careful with PLC, power line control, interfaces. Anything from fluorescent lighting to laptop power supplies can cause interference. We strongly recommend that you *do not* use PLC lighting controllers in commercial environments, given that they are usually supplied by three-phase power and have too much electrical noise in the environment for the PLC signals to overcome. Since the receptacles need to be free of interference, you also need to take great care when choosing a location for your PLM and Access Points. If you have a server rack plugged into the same outlet as these devices, you will need to add a 15-amp filter to isolate the rack's power conditioning equipment, which can attenuate PLC signals. The same goes for your laptop power supply. If the PLM or Access Point is plugged into the same receptacle as your laptop, you may also experience reliability issues.

Run Response Test

This test is used to check to see how well the light responds to commands sent by the EyeOn server. When running this test, each light will be commanded to turn on and off four times. This test will show how many times the light switch gives a status response to these series of commands. We recommend turning on all appliances before starting the test. If you are noticing problems, add FilterLincs to devices you suspect are causing the interference. To determine what the problem is, look for electronic interferences near the problem area. Laptops plugged in near PLC lighting devices have also been found to cause interference with the lighting setup process.

Run Status Test

This test is to make sure you are getting good status messages from each light. It also helps you to double check that you have programmed and named all of the lights correctly. Begin by pressing Start Over next to Run Status Test. After starting this test, switch each light on and off. This action should remove the light from the list. Press Test Results next to Run Status Test, to see which lights are still listed. Locate the lights on the list and test them. Refresh the page to see if the light was removed from the list. Once they are all gone that means you are getting status from each light. Also if you forgot to program a light, but turned it off and on for the status check anyway, it will show up at the bottom of the results page. Unfortunately, since there is no name associated with these overlooked lights, you will need to determine which lights you missed and program them into the system.

Important! Always make sure you click on Stop Test at the bottom of the Test Results page when you have completed your tests. If the test is left running, it will cause more server load and could decrease the efficiency and speed of the system.

6.8.2 Leviton Lighting

Add Master

To add a new master light, click **ADD MASTER** under the appropriate room. Type a name for the light. Avoid using the word light in the name. Keep in mind that there is no max length. For aesthetic purposes, it is recommended to keep the name under 12 characters.

Next select how many scenes you want to use with the Dimensions. Each of these will show up on the Touch Screen. Enter the group code that you setup on the Dimensions.

The last option is sorting. You will be able to sort the light to move it on the touch screen, web base, PDA, and Mobile Device. The lower the number is the closer the light is to the top of the screen. Click Add Light. Read the on screen instructions then click add. If the light is found it will tell you. If it is not found then try again.

See page 49 for more information on setting up Leviton Lighting.

Edit

Choose edit to reconfigure any of the lighting options or to rename the light.

Delete

This simply deletes the light.

6.8.3 Lutron Lighting

GREAT ROOM

FOYER MAIN (24) [\[EDIT, DELETE, \]](#)
FOYER CANS (23) [\[EDIT, DELETE, \]](#)
FOYER SCONCE (22) [\[EDIT, DELETE, \]](#)
FOYER (18) [\[EDIT, DELETE, \]](#)
STAIRS WALL (19) [\[EDIT, DELETE, \]](#)
STAIRS STEP (20) [\[EDIT, DELETE, \]](#)
[\[ADD MASTER\]](#)

KITCHEN

[\[ADD MASTER\]](#)

MASTER BR

MAIN (15) [\[EDIT, DELETE, \]](#)
BED (17) [\[EDIT, DELETE, \]](#)
FIREPLACE (16) [\[EDIT, DELETE, \]](#)
HALL CANS (13) [\[EDIT, DELETE, \]](#)
HALL TRACK (14) [\[EDIT, DELETE, \]](#)
FOYER (18) [\[EDIT, DELETE, \]](#)
[\[ADD MASTER\]](#)

MASTER BATH

[\[ADD MASTER\]](#)

LOFT

FONTUNE (09) [\[EDIT, DELETE, \]](#)
[\[ADD MASTER\]](#)

SARAH'S ROOM

[\[ADD MASTER\]](#)

GAME ROOM

[\[ADD MASTER\]](#)

EXERCISE ROOM

[\[ADD MASTER\]](#)

ENTERTAINMENT

RECESS CANS (01) [\[EDIT, DELETE, \]](#)
WALL SCONCE (04) [\[EDIT, DELETE, \]](#)
FIREPLACE (03) [\[EDIT, DELETE, \]](#)
BAR (02) [\[EDIT, DELETE, \]](#)
PATIO (05) [\[EDIT, DELETE, \]](#)
[\[ADD MASTER\]](#)

GARAGE

FOYER CANS (10) [\[EDIT, DELETE, \]](#)
[\[ADD MASTER\]](#)

DINING ROOM

MAIN (27) [\[EDIT, DELETE, \]](#)
SCONCE (26) [\[EDIT, DELETE, \]](#)
[\[ADD MASTER\]](#)

Add Master

To add a new master light, click **ADD MASTER** under the appropriate room. Type a name for the light. Avoid using the word light in the name. Please keep in mind that there is no max length, but you can easily go over the number of letters that can fit on the touch screen. An average of 11-12 letters is the maximum length.

Next select whether the light is a dimmer or relay switch. Enter the group code that you setup on the light switch.

The last option is sorting. You will be able to sort the light to move it on the touch screen, web base, PDA, and Mobile Device. The lower the number the closer the light is to the top of the screen. Click Add Light. Read the on screen instructions then click add. If the light is found it will tell you. If it is not found then try again.

See page 47 for more information on Lutron Lighting.

Edit

Choose edit to reconfigure any of the lighting options or to rename the light.

Delete

This simply deletes the light.

6.9 IR

First enter in the number of matching commands that will be used for Remote IR. This number represents a range beginning with 1. For example, if the number is 81 then 1-81 would be used as matching commands. Generally this number will be between 80 and 100.

The ports listed are used for IR sending commands. Each port will be run to a different IR block for IR distribution. Enable each port that is going to be used and name it. This name will be shown when you are setting up the IR Send commands.

Remote IR Send Setup

ADI Ocelot

 How many matched commands (0-999)

Enabled	▼	<input type="text" value="LL"/>
Enabled	▼	<input type="text" value="2"/>
Enabled	▼	<input type="text" value="3"/>
Enabled	▼	<input type="text" value="4"/>
Enabled	▼	<input type="text" value="5"/>

- IR Local Send Port
- IR Send Port 0
- IR Send Port 1
- IR Send Port 2
- IR Send Port 3

6.10 Access Control

You should link each reader to the appropriate door lock. The door lock is setup on the security screen. See page 83. Also select which Relay controls each lock. Access Control software must be registered and installed on the server before Access Control can be activated.

Access Control Setup

[Account Setup](#)

Access Reader 1 Name

Relay 3:



Relay 4:



NStar Port

Access Reader 2 Name

Relay 3:



Relay 4:



NStar Port

The Account Setup link gives you access to the screen below. This screen will allow you to setup the User Name and Password for the EyeOn Automation Access Control Software. This login information operates independently from the Administrator and User Screens.

This is used to create access control user accounts. You will need to create an account before someone can login to the Access Control software.

hitcents

[\[Delete\]](#)

User Name

Password

Confirm Password

Add User

6.11 Screen/PDA

Each touch screen will need to be saved into this site for communication.

[Audio](#) [Video](#) [Security](#) [Climate Control](#) [Surveillance](#) [Lighting](#) [IR](#) [Access Contr](#)

Touch Screen

Black Screen timeout in Seconds

Last Octet of IP 1	<input type="text" value="151"/>	Name 1	<input type="text" value="DEN"/>	Name 1	<input type="text" value="Touch Screen"/>
Last Octet of IP 2	<input type="text" value="152"/>	Name 2	<input type="text" value="CLINTON"/>	Name 2	<input type="text" value="Touch Screen"/>
Last Octet of IP 3	<input type="text" value="153"/>	Name 3	<input type="text" value="KITCHEN"/>	Name 3	<input type="text" value="Touch Screen"/>
Last Octet of IP 4	<input type="text"/>	Name 4	<input type="text" value="None"/>	Name 4	<input type="text" value="Touch Screen"/>
Last Octet of IP 5	<input type="text"/>	Name 5	<input type="text" value="None"/>	Name 5	<input type="text" value="Touch Screen"/>
Last Octet of IP 6	<input type="text"/>	Name 6	<input type="text" value="None"/>	Name 6	<input type="text" value="Touch Screen"/>
Last Octet of IP 7	<input type="text"/>	Name 7	<input type="text" value="None"/>	Name 7	<input type="text" value="Touch Screen"/>
Last Octet of IP 8	<input type="text"/>	Name 8	<input type="text" value="None"/>	Name 8	<input type="text" value="Touch Screen"/>
Last Octet of IP 9	<input type="text"/>	Name 9	<input type="text" value="None"/>	Name 9	<input type="text" value="Touch Screen"/>
Last Octet of IP 10	<input type="text"/>	Name 10	<input type="text" value="None"/>	Name 10	<input type="text" value="Touch Screen"/>
Last Octet of IP 11	<input type="text"/>	Name 11	<input type="text" value="None"/>	Name 11	<input type="text" value="Touch Screen"/>
Last Octet of IP 12	<input type="text"/>	Name 12	<input type="text" value="None"/>	Name 12	<input type="text" value="Touch Screen"/>
Last Octet of IP 13	<input type="text"/>	Name 13	<input type="text" value="None"/>	Name 13	<input type="text" value="Touch Screen"/>
Last Octet of IP 14	<input type="text"/>	Name 14	<input type="text" value="None"/>	Name 14	<input type="text" value="Touch Screen"/>

The Black Screen time out, similar to a screen saver, defaults to 5 minutes (300 seconds). This means that that after 5 minutes of no activity the screen display will turn to black. The EyeOn screen can be re-activated by touching anywhere on the screen.

You will need to select which room the screen is in and put the last octet of the IP address. At this time do **not** setup the PDAs in this screen. PDA is only used for special cases

Name 1 <input type="text" value="DEN"/> Audio Zone <input type="text" value="None"/>	Full IP <input type="text" value="192.168.130.151"/> Camera <input type="text" value="None"/>	Volume 1(loud)-78(soft) <input type="text"/>
Name 2 <input type="text" value="CLINTON"/> Audio Zone <input type="text" value="CLINTON"/>	Full IP <input type="text" value="192.168.130.152"/> Camera <input type="text" value="None"/>	Volume 1(loud)-78(soft) <input type="text"/>
Name 3 <input type="text" value="OFFICE"/> Audio Zone <input type="text" value="OFFICE"/>	Full IP <input type="text"/> Camera <input type="text" value="None"/>	Volume 1(loud)-78(soft) <input type="text"/>
Name 4 <input type="text" value="KITCHEN"/> Audio Zone <input type="text" value="KITCHEN"/>	Full IP <input type="text" value="192.168.130.153"/> Camera <input type="text" value="None"/>	Volume 1(loud)-78(soft) <input type="text"/>
Name 5 <input type="text" value="CHRIS"/> Audio Zone <input type="text" value="CHRIS"/>	Full IP <input type="text"/> Camera <input type="text" value="None"/>	Volume 1(loud)-78(soft) <input type="text"/>
Name 6 <input type="text" value="GUEST"/> Audio Zone <input type="text" value="GUEST"/>	Full IP <input type="text"/> Camera <input type="text" value="None"/>	Volume 1(loud)-78(soft) <input type="text"/>

The VoIP through Touch Screen setup is listed below the Touch Screen setup. This will allow you to setup each touch screen and the corresponding zones. We recommend keeping the names the same.


You will need the full IP address of the touch screens to set this up. The touch screen will not have a camera. Once you test the touch screen you can then adjust the volume of the room by overriding the default. If there is a camera on the standalone intercom you can select the camera. You can then adjust the volume on this screen but setup is done on the Surveillance page.

6.11.1 Quick Screen

Quick Screens allow for fast and easy access to the features you use more prevalently on each touch screen. Quick Screens can be managed from the **Home Administrator Screen** and changed as often as you'd like.



From the Administrator Screen select the **Screen/PDA**. At the bottom of the screen select **Quick Screen**.


Your life. On autopilot.
Home Administrator

ooms	Audio	Video	Security	Climate Control	Surveillance	Lighting	IR	Access Control	Screen/PDA	Setup
------	-------	-------	----------	-----------------	--------------	----------	----	----------------	------------	-------

Touch Screen		
Touch Screen IP	Touch Screen Room	Options
60	DEN	[Edit]
36	OFFICE	[Edit]
17	CHRIS	[Edit]
54	CLINTON	[Edit]

[Back](#)

All touch screens will be listed. If your touch screen is not listed please see the **Screen/PDA** section of the Tech Guide. Select **Edit** next to the touch screen you want to change. Here the Module numbers represent the quadrants of the screen. Each module will allow you access to one component of your EyeOn system. Select the components from the drop down boxes. There is also a check box that allows you to enable and disable the access to your touch screen. When you finish making your selections, select **Next**.

Touch Screen 17 in CHRIS

Module Setup	
Module 1	Lighting
Light Scene 1	MAIN LIGHT (DEN) ▼
Light Scene 2	FIRE PLACE (DEN) ▼
Light Scene 3	ALL (DEN) ▼
Module 2	Moods
Mood 1	HOT TUB (None) ▼
Mood 2	CD PLAYER (KITCHEN) ▼
Mood 3	INTERNAL SNAPSHOT (CLINTON) ▼
Mood 4	CAMERA (OFFICE) ▼
Mood 5	None ▼
Mood 6	None ▼

To set up the Modules, select the corresponding features that you would like to control within each Module. When you finish selecting all of the features hit **Save** at the bottom of your screen.

For example; on the Lighting Module you might want to setup a few light scenes. One for the Main light, another one for the Fan, and the last one to control all the lights in the room and the bathroom. This will allow you to turn on all the lights with a single button press.

After you create your Quick Screen you will need to go to the **Setup** link on the Administrator screen to **Update Server**. The screens will reboot automatically.

6.11.2 Advanced Commands

Use the Advance Command button to override commands through the system to perform other actions. This is done by running a mood. ***You will have to set up the mood you want to override the command before you set up the Advanced Command.***

Profile	Rooms	Audio	Video	Security	Climate Control	Surveillance	Lighting	IR	Access Control	Screen/PDA	Setup
-------------------------	-----------------------	-----------------------	-----------------------	--------------------------	---------------------------------	------------------------------	--------------------------	--------------------	--------------------------------	----------------------------	-----------------------

Advance Commands		
Name	Command	Options
Music On	*Z7ON	[Edit,Delete]
Music Off	*Z7OFF	[Edit,Delete]
		[Add]

Last Command that was ran is (151), last Type is (TOUCHWATCH). Please do not include the "()" in the command or type. Commands are case sensitive.

[Back](#)

When you hit the Advance button, a screen similar to the one above is displayed. Notice the bottom box contains the last command that was run. To add a new Command, select the Add button.

Profile	Rooms	Audio	Video	Security	Climate Control	Surveillance	Lighting	IR	Access Control	Screen/PDA	Setup
-------------------------	-----------------------	-----------------------	-----------------------	--------------------------	---------------------------------	------------------------------	--------------------------	--------------------	--------------------------------	----------------------------	-----------------------

Replace existing commands with a mood	
Name	<input type="text" value="Music On"/>
Command	<input type="text" value="*Z7ON"/>
Type	<input type="text" value="ZONE"/>
Mood #	<input type="text" value="29 79"/>
Cancel Command Click for yes	<input type="checkbox"/>

Last Command that was ran is (151), last Type is (TOUCHWATCH). Please do not include the "()" in the command or type. Commands are case sensitive.

[Next](#)

First give the new command a Name. To get the Command and Type refer to the bottom box for the last one that was ran. (Make sure this is the correct command before using it). Enter the mood number from the user screen.

Cancel Command click for YES, will cancel the first command and run the mood. If you don't select the check box the first command will run along with the mood.

Example: Using an Audio Source that is connected to a surround sound system. Without setting up an Advanced Command when you power on the audio source it will only switch the audio distribution to the correct output. You will manually need to turn on the surround sound. To fix this problem you will need to set up an Advanced Command to run a mood that turns the surround sound on and to the correct port. In this case you would not want to select the Cancel Command checkbox. This will enable the first command that turns on the Audio distribution to run while also running a mood to turn on the surround sound.

6.12 Setup

Once you have entered the data for each subsystem, move on to the last link on the Administrator screen which is labeled Setup. Though there are several settings under this category, you'll just need to create a Username and Password to get started. The purpose of this setting is to give the home owner their own username and password for remotely accessing the EyeOn User webpage. This username will only allow the end-user to get to the User webpage, but will not give them access to the Administrator screen. (For the installer's convenience, the administrator's password will give the installer access to both the User and Administrator screens.)

System Setup - (System Status: Running)

<input type="text" value="50"/>	<input type="button" value="Update"/>	Doorbell Volume (1 highest-78 DF 50)
<input type="text" value="50"/>	<input type="button" value="Update"/>	Announcement Volume (1 highest-78 DF 50)
<input type="text" value="None"/>	<input type="button" value="Update"/>	First Doorbell Source
<input type="text" value="On"/>	<input type="button" value="Update"/>	Allow Moods
<input type="text" value="On"/>	<input type="button" value="Update"/>	Allow Internet Browser on Touch Screen
<input type="text" value="Central"/>	<input type="button" value="Update"/>	Time Zone
<input type="text" value="mills2"/>	HTTP User Name	
<input type="password" value="....."/>	Password	
<input type="password" value="....."/>	Confirm Password	
<input type="button" value="Save Password"/>		
<input type="text" value="-86.27"/>	Longitude	
<input type="text" value="36.98"/>	Latitude	
<input type="button" value="Save L and L"/>		
Sunrise: 05:25 Sunset: 20:06		

[\[Sub User Manager\]](#)
[\[Event Log\]](#)
[\[Generate Cisco Code\]](#)
[\[EyeOn Services\]](#)

<input type="button" value="Update Server"/>	<input type="button" value="Soft Server Reboot"/>		
<input type="button" value="Screen Reboot"/>	<input type="button" value="Screen Off"/>	<input type="button" value="Screen On"/>	<input type="button" value="Screen Force Update"/>
<input type="button" value="Change IP"/>	<input type="button" value="Change Password"/>	<input type="button" value="Server Reboot"/>	

Near the bottom of the Setup page, there are several buttons related to updating and rebooting the server and touch screens. Since you have added or changed devices in the Profile screen, you must click the **Update Server** button for the hardware to be recognized. After you have performed this update, you will need to hit the **Detect Hardware** link, under the event log. Since this is the first time

the server will be detecting the hardware for your new installation, this rebooting process can take up to 20 minutes. Note: Once all hardware is detected, future boot times should be anywhere from 2 to 5 minutes. Though we recommend that you keep a monitor connected to the EyeOn server to watch for errors as they occur, the installer also has access to a historical version of this information via the Event Log link on this Setup page. At this point, unless you use the Profile screen to make changes to the hardware that is already configured and detected, there should be no need to perform another **Server Reboot**.

If changes are made to any category, other than Profile, you will need to click the **Update Server** button followed by clicking the **Hardware Detection** button.

When you do a **Soft Server Reboot**, the server will stop responding for up to 59 seconds. Subsequently, the touch screen will also reboot with the new configuration changes.

Important! Even though the server has booted up, it may NOT be done detecting all of the hardware. Please watch for the following Status information at the top of screen to see the hardware status:

- **Running – The system is running and should be operational.**
- **Not Running – This normally means a Soft Server Reboot was done. The system should start up within 1 min.**
- **Soft Reboot – A Soft Server reboot has just completed.**
- **Detecting Hardware – The system is starting up. It is going though and finding all hardware attached to the EyeOn Server.**

Doorbell Volume

This will allow you to adjust the doorbell volume for the entire house. Once you have updated the volume, click the update volume button next to the doorbell volume. Keep in mind that one is higher and 78 is lower.

Announcement Volume

This is the default Announcement Volume for the entire house. Adjust the volume, then press update.

First Doorbell Source

If you would like to make the doorbell quickly ring in one room first, before ringing in the entire house, then you can select a room from the drop down. Once you have made the change click the update button above the drop down box.

Allow Moods

If you would like to turn the mood button off on the touch screen, you can do so by selecting off and clicking update.

Allow Internet Browser on Touch Screen

If you would like to turn the internet browser off on the touch screen, you can do so by selecting off and clicking the update button.

HTTP Username and Password

Use these fields to setup the homeowner's username and password to login to the web-based screen. Once you have updated, press Save Password. The username and password can only be used for the user screen not for the admin screen. The admin name and password has access to both.

Longitude & Latitude

Use these fields to setup the Longitude & Latitude for sunrise and sunset. This is used in cases where things are triggered by the sun setting or rising.

Eastern longitude is entered as a positive number
Western longitude is entered as a negative number
Northern latitude is entered as a positive number
Southern latitude is entered as a negative number

Here is an example of Bowling Green, KY #Longitude = -86° 27' West, Latitude = 36° 58' North. Everyone in North America will have a negative Longitude and positive Latitude.

Sub User Manager

The Sub User Manager allows you to create sub users for the web-based screen, mobile phone, and PDAs.

Create a new user by giving them a user name and password. Creating a new user will add them to the user list within the Sub User Manager. Each user will have full access by default.

Press limit access to restrict their access to specific buttons or rooms. Restricting a button or room will remove their access to control those buttons or rooms. If you select Schedules or Moods from the buttons, the user will not be able to view the schedule setup screen. Select any buttons or rooms the user should not have access to control and press save.

This is important to note because if they have access to the Schedule Setup, then they have access to all schedules and moods. This could pose a serious security risk.

Press delete to delete a sub user. Deleting a user immediately restricts their access.

Event Log

You can use the event log to see if there are any current hardware issues. If there are issues you will need to restart the server or rerun the startup script. You can also look at the current errors. This will pool the device once an hour to see if there are any issues. For example, if something gets unplugged it will stop responding and report an error.

Event Log

Hardware Log - The purpose of this log is to show which devices (configured using the Profile screen) were not detected during startup. If there are any devices shown on this list, you will need to re-attempt to detect the hardware by clicking [Detect Hardware](#). This re-detection can also be achieved by fully rebooting the server. Keep in mind that, while the hardware detection script is running, the system will not function.

All Hardware Detected, No Errors

Proactive Hardware Monitoring Log - This log is used to show hardware (configured using the Profile screen and Manage Remotes) that has stopped responding to the EyeOn server. This hardware check is automatically run every hour. To manually run this test click [here](#). (Test Last Ran: 04 21, 2008 8:28:55 A.M.)

All Hardware Responding, No Errors

Hardware Found - This log is used to verify that hardware, configured using the Profile screen, is setup correctly on the system. This information is gathered during the hardware detection process and should reflect all of the hardware in your system.

IR - COM48
ELK - COM15
CD - COM45
LIGHT - COM44
AUDIO SYSTEM - COM47
CLIMATE - COM14
CLIMATE - COM14

The hardware log will give you a list of errors that occur during the Hardware Detection process. You will need to check this every time you detect hardware to make sure the detection was successful. Proactive Hardware Monitoring Log checks your hardware every hour to see if it is still responding. The Hardware Found is a list of the hardware in your system that was successfully detected.

Generate Cisco Code

This will automatically generate the Cisco config for you. Look at page 109 for more information

EyeOn Services

This link provides unique Customer and System information. Customer information should be kept up to date by dealer. Below the Customer Information is the System Information. Here you will find the unique key codes for the devices and software in each system. This information may be needed for activation purposes.

Please fill in the customer information below. Note: All fields are required.

Customer Name	<input type="text"/>
Customer Address	<input type="text"/>
Customer City	<input type="text"/>
Customer State & Zip	<input type="text"/> & <input type="text"/>
Customer Phone #	<input type="text"/>
Save Customer Info	<input type="button" value="Submit"/>

Below is a list of devices and software for your EyeOn System. Key codes are used for activation purposes and are unique to your system, please keep them confidential.

Device	Key Code
Touch Screen	1234-5678-9012
Touch Screen	1234-5678-9012
Access Control	1234-5678-9012

If you need any assistance with any information on this page please visit the Dealer Resource Center online at <http://www.eveonautomation.com/dealerinfo.htm> or call our office at 270.796.5063.

Update Server

After you have made any changes to any of these screens, you will need to hit update server. This will resave the config files. You might need to restart the touch screens. Click the Screen Reboot button to do this. You must hit the Soft Server Reboot to reload the config file. The server will be down for about half a minute.

Screen On/Off

This will allow you to turn off the screens to work on them. This will turn off all screens in the house.

Screen Force Update

This is will update the screens in the house by downloading and updating software and then running it.

Change IP

This changes the IP address for the server.

Change Password

This will change the password on the administrator login screen, the htaccess for web access, and ssh password for the root user. Things that will not be changed are listed below:

Cisco Router
Touch Screen Computer Login
DVR Computer Login
DVR htaccess Password
Wireless Access Points

All these will need to be changed manually. For more information on changing the computer login info for the touch screen please see [Changing Touch Screen Password](#).

7.0 Configuring Cisco Router

Do this after you insert the touch screen and IPs.

Now you need to setup the Cisco 831 for internet access and DHCP.

Login to the EyeOn Admin Screen

<http://192.168.130.90/admin/>

Go to setup and Cisco and generate the Cisco configuration and do the on screen instructions.

Make sure it takes the Cry key gen rsa line at the very end. It will only go through when you have internet access. You have two options, wait for internet access or add a line to the config 'ip domain-name insightbb.com'.

If it does not work, try restarting the cable router, then the 831 router. The 831 takes a while to boot up. Once it boots up you should get a 192.168.100.1 or 10.X.X.X. Setup DHCP and go to 74.128.1.122 and you need to go through the screens. Once you go through, you must restart 831. Then it should work.

Once you have internet service, reboot the server and let it install updates if any.

We recommend using a Cisco Router or a SonicWall when setting up your router. If a standard router is being used instead, port forwarding will need to be used. Refer to the **Technician Manual** for more details about this subject.

Important: If a Cisco or SonicWall is not used, you will not be able to access your system using the unique URL through your local network. It will only be accessible from outside the home. To gain access from inside your home, you need to use the IP Address <http://192.168.130.90/website/admin/> or <https://192.168.130.90/admin/> that was mentioned earlier in the **Accessing the EyeOn Home Administrator Screen**. Using the internal IP on the local network will cause the system to have limited functionality (see **About Limited Functionality** below). If a Cisco router is being used, please refer to the **EyeOn Technician Manual** for setup instructions.

Note: If the local network has a DNS server the Cisco router or SonicWall will not be necessary. When the system is connected to the internet it will use a Dynamic DNS server to update the URL and IP address.

If you would like to access SSH to the EyeOn server use port 22. If you would like to access the Cisco Router to the EyeOn server use port 2001.

7.1 Limited Functionality

If you must use the private IP (192.168.130.90) to access your EyeOn User System from inside your house, you will have limited functionality. The following limitations will only occur with the Surveillance System and SSL certificate:

- You will see a security warning stating that your SSL Certificate is not valid. This does not mean that your site is not secure; it just means the name does not match the internal IP address. This warning will not cause your system to run incorrectly.

- When using the Camera Button on the EyeOn User screen; the View or Recorded videos will not be accessible. To access these screens you will be required go to the private IP address of the Surveillance DVR manually.
- If any events have been configured to send pictures to your e-mail address, you will not be able to access these pictures while on your local network (you will see a red X in its place).

7.2 Port Forwarding

Some port settings may need to be adjusted.

This is an example, please change as needed

External Port Number	Internal Port Number	Internal IP
22	22	192.168.130.90
80	80	192.168.130.90
443	443	192.168.130.90

We recommend opening the port for remote desktop to the surveillance system.

External Port Number	Internal Port Number	Internal IP
8883	8883	192.168.130.53 (Surveillance IP)
3389	3389	192.168.130.53 (Surveillance IP)

We recommend opening the port for remote desktop to each touch screen.

External Port Number	Internal Port Number	Internal IP
3390	3389	192.168.130.151 (Touch Screen 1)
3391	3389	192.168.130.152 (Touch Screen 2)

8.0 Miscellaneous Information

8.1 Server Startup Script

Run startup script to detect new hardware from terminal:

Option 1, reboot server

Option 2, Hit Ctrl, Alt F2 to switch to a clean terminal

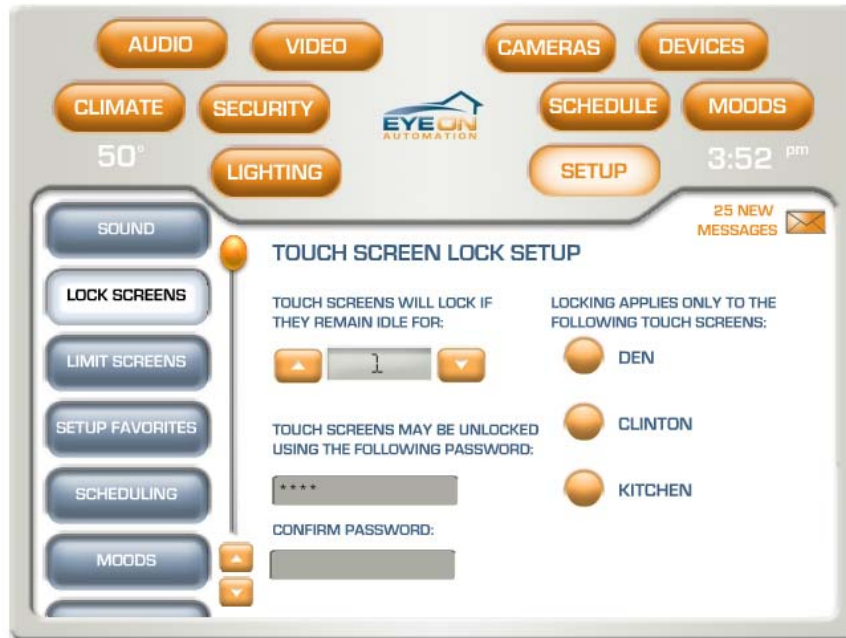
Login with username and password

Type `cd /home/homeauto/htdocs/`

Type `./startup.cgi`

8.2 IP.cgi

The User Screen helps enforce restrictions through use of the Lock and Limit Screen buttons. These screens allow you to limit which features you can adjust through each touch screen.



For even greater control over your system you can use IP.cgi to restrict things other than rooms and touch screen. You can restrict things such as Climate, Devices, Security, Intercoms and Cameras.

You must log on to the EyeOn server using SSH. IP.cgi is located: /home/homeauto/htdocs/cgi/IP.pl. Use a Text Editor to edit this .

It may look similar to the file below. The highlighted portions below must be in the script in order for your EyeOn server to work.

#This is used for each com port on the system. This is setup before it gets to you.

```
$TTYs = "\@TTY = (0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15);";
```

#To restrict things other than rooms and devices, you can do this though IP.cgi

#Restrict

```
$RestrictClimate{'151'} = "2:3:4:5:6:7:8:9:10:11:12:13:14:15:16:17:18:19:21:22";
```

```
$RestrictDevice{'151'} = "3:4";
```

```
$RestrictSecurity{'151'} = "1";
```

```
#$RestrictIntercom{'151'} = "1:2";
```

```
$RestrictCamera{'151'} = "4:5:6:7:8";
```

#Put the last oct of the IP where you see 151. Put each reference number of each item in the ". Separate each one with :. To figure out the reference number you will need to look in Properties.txt. Below is the reference number in bold.


```
#Reference to each restriction
#Climate
#&ThermostatReferenceNum1=2&
#Devices
#&Device1Name=DETACHED LEFT&
#Security
#&SecurityRefNum1=1&
#Intercom
#&Intercom1ID=1&
#Camera
#&Camera1Num=1&
```

```
#for server ip address
```

```
$SERVER_IP = "192.168.130.90";
$TTYS = "\@TTY = (0,14,15,44,45,46,47,48,49);";
```

```
1; #return true
```

8.3 RS232 Device Commands

You can use these RS232 commands to help with trouble shooting needs.

Device	Command	Baud Rate	Settings	Comments
RS485 hub with outside RS485 hub	A=1 R=3	9600	8N1	This is if the device is set to 1 This is if the device is set to 2. Note you can use 255 to talk to all devices
with temp	A=2 R=1	9600	8N1	
JDS Channel	6C82C1CC6D	2400	8N1	
Plus Video	MX00Z06	9600	8N1	This should work
HD Video	0111	4800	8N1	
ELK	06rr0056	115200	8N1	
Cd Player	!2PMS01	9600	8N1	Chr, can not send
Insteon	02 60	19200	8N1	
Lotron	NOTING	9600	8N1	
Nuvo	*VER	9600	8N1	
Tuner	*T'A'VER	9600	8N1	
Russound	HEX	19200	8N1	
Jandy	#ECHO = ON	9600	8N1	

8.4 Extending RS232

8.4.1 Extending RS232 – Ethernet Adaptor

To do this you need to use a device that converts RS-232 to IP. This will allow you to plug this device to any Ethernet switch and control devices.

We have used NET232-DTE from Gridconnect (<http://www.gridconnect.com/net232-dte.html>)

The first thing you will have to do is set the IP address of the device. If you use the Device installed application that comes with the device you can set the IP. After you set the IP you can telnet into the device to configure it. Telnet <IP> 9999. You will need to change the baud rate, stopbit, etc to match the device settings.

See **Manage Remotes Device Settings** for appropriate settings. Settings for the Devices are normally 9600,8N1. Most of our devices use the default settings.

Additional setup options:

Once you have telnet into port 9999 you will need to setup the security.

Server 0

Change Telnet Password (home)

Channel 1

Change baud rate

Security 5

Disable SNMP Y

Disable Web Server

Disable Web Setup

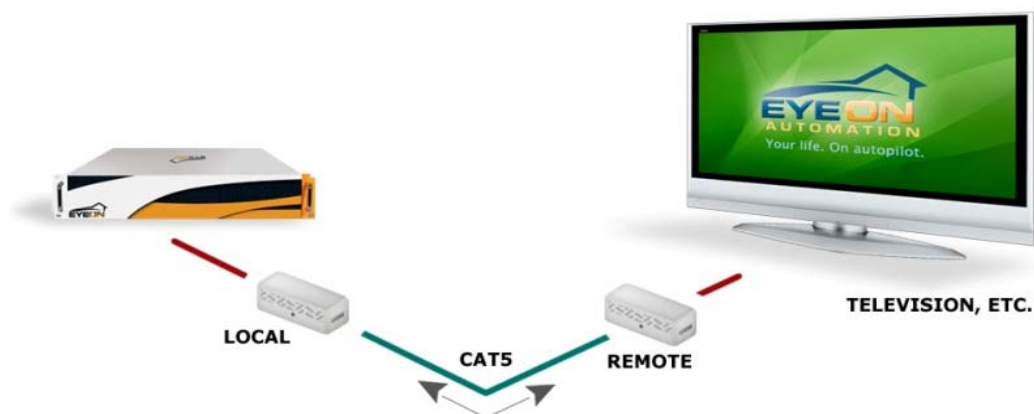
Save and Exit

Once this is setup you can use this for all the remotes. This can not be used for the main devices on the system. You can also use this in the advance section of the scheduler software.

If you need more information on the baud rate for each device please refer to the Device Setup document.

8.4.2 Extending RS232 – Cat. 5 Extender

RS 232 can be ran into Cat 5 using the Minicom Adapter listed on our order sheet.



Technical Specifications

Model	Local Unit	Remote Unit
System Cable	CAT5 UTP	
Maximum Distance	1000m/3,300ft	
Connection	RJ45 System Jack Power DB9F-RS232	RJ45 System Jack Power DB9M-RS232
DB9 Pin Out	Pin 1 - Pin 2 - Received Data Pin 3 - Transmit Data Pin 4 - Data Terminal Ready Pin 5 - Signal Ground Pin 6 - Data Set Ready Pin 7 - Request To Send Pin 8 - Clear To Send Pin 9 -	
Dimensions	23Hx45Dx75Wmm / 0.91Hx1.77Dx2.95W"	23Hx45Dx75Wmm / 0.91Hx1.77Dx2.95W"
Weight	120g	120g
Shipping Weight	680g	
Power Supply	Power Adapter 12VDC 1A	
Operating Temp	0° to 40° C	
Storage Temp	-40 - 70° C	
Warranty	3 Years	

8.4.3 Manage Remotes Device Settings

The device settings are used during the initial setup for programming the devices in your system. The device ID is very important for identifying the component. Use the following ID for the Managing Remotes tab on the Administration setup.

LG Plasma/LCD

9600bps, 8N1

Device ID is 1 by default

Straight Through on some and Null Modem Cable on others. Check manual.

Integra DCP 8.5

9600bps, 8N1

Device ID is not used

Straight Through Cable

Integra DTR

9600bps, 8N1

Device ID is 1 by default

Straight Through Cable

JVC RS232 DVD/VHS

9600bps, 8N1

Device ID is not used

Null Modem Cable

Pioneer Elite 1150HD1½2½

9600bps, 8N1

Device ID is ** by default

Straight Through Cable

SunBriteTV SB4600-HD

9600bps, 8N1

Device ID is not used

1/8 Mini Jack Cable

ViewSonic

9600bps, 8N1

Device ID is not used

Null Modem Cable

InFocus IN83

19200 bps. 8N1

No default id

Null Modem Cable

InFocus IN72,74,76

19200bps, 8N1

No default id

Null Modem Cable

8.5 Intercom

At times, the installer may find the need to adjust the volume of the microphone input on the **EyeOn Server** in order to increase the volume of the **Announcement** feature. Use the following procedure to make this adjustment:

1. Use SSH or the local console (simultaneously press [CTRL]+[ALT]+[F2] for a new session) to logon to the EyeOn Server using the following:

Login: root
Password: ***

2. At the prompt, type “alsamixer” to bring up the volume control application. Experiment with the settings to optimize the sound for the **Announcement** feature.

8.6 Touch Screen Codes

For access to Windows XP administrative functions, perform the following steps:

1. Press the **Security** button to invoke the security keypad.
 - If the **Screen Lock Keypad** is already being displayed, go on to the next step.
 - If the **Security** button is not present, press the EyeOn Logo to return to the Main Menu.
2. Type in the following code: **039366**
3. The following screen will appear, allowing access to various administrative functions of the touch screen.



8.7 EyeOn Limitations

Though the EyeOn Server is extremely flexible and can be used in most home automation installations, there are limitations to keep in mind as you design your EyeOn Automation based system. These limitations are listed below:

- 38 Rooms
 - Following Devices linked to room
 - Audio
 - Intercom
 - Lighting
 - Video
 - Touch Screen
- 8 Input and 20 Output HD Video Distribution, plus
- 8 Input/Output Standard Video Distribution
- 25 Touch Screens w/ Intercom
 - If you have a gate intercom, door intercom, etc will come out of the 25
- 34 Touch Screen
- 200 scene max Insteon
- 5 Audio Source Plus 2 Aux ports
- 30 Audio Zone
 - 15 Audio Wall Key Pads
- 60 speakers or 90 speakers doubled up.
- 38 rooms of light or extra lights be added to other rooms
- 16 Camera Systems for touch screen viewing
- 32 Camera System, plus
- 32 HVAC (Easily expanded)
- 15 RFID Access Control Readers
- IR supports up to 20 different ports
 - Can run same port to multiply IR emitters
- You are allowed three different doorbells.
 - If you have more than three you can run them in parallel, but you will hear the same doorbell for both doors.
 - You can also make a an intercom a doorbell It will just show up in the intercom screen, but work like a doorbell.
- You are allowed five external intercoms.

8.8 Commonly Used Moods

Some event sequences must be setup as a mood to function appropriately. There are many reasons to make triggers run moods to help change the way the event will act. One advantage of making it a mood is simply because it can be ran from the touch screen. If you are setting up a mood to run on an Insteon keypad, it is best to make the mood from the mood screen and make the trigger on the keypad to run that mood. Automation is all about doing things automatically. It is best to try and use different sensors and schedules to do task automatically.

These are quick examples of commonly used moods that you may want to set up.

- Main Moods
 - Night Mood
 - Turn on lighting, set security alarm, wait, turn off all lights in typically unoccupied areas- i.e. kitchen, etc.
 - Make this a mood, room specific, resettable no
 - Day Mood
 - Turn on all lights in occupied rooms/areas
 - Make this a mood, room specific, resettable no
 - Party Mood
 - Turn on all lights and music in occupied areas
 - Make this a mood, room specific, resettable no
 - Away Mood
 - Turn on all lights, turn off all music, set security system, wait, turn off all lights in house
 - Make this a mood, room specific, resettable no
- TV Moods
 - Movie Mood
 - Turn off lights
 - Send IR to turn on equipment
 - Make this a mood, room specific, resettable no
 - TV Mood
 - Turn off some lights and dim others
 - Send IR to turn everything on
 - Make this a mood, room specific, resettable no
 - Sports Mood
 - Turn off some lights and dim others
 - Send IR to turn everything on, turn up sound system
 - Make this a mood, room specific, resettable no
- Misc Moods
 - Hot Tub Mood
 - Turn on lights outside, make some lights dim & turn up music volume, wait, turn off lights in nearby unoccupied areas, report outside temperature to hot tub, wait, turn on lights in occupied areas, wait, turn off music outside
 - Make this a mood, room specific, resettable no.
 - Entertainment Exit
 - Send IR to turn off equipment
 - Turn off lights
 - Make this a mood, room specific, resettable no
 - Pool Mood
 - Turn on outside music, turn up volume

- Make this a mood, room specific, resettable no
- Outside Mood
 - Turn on outside music, turn up volume
 - Make this a mood, room specific, resettable no
- Dog Walking Mood
 - Make two different triggers for the same button
 - turn on lights, wait, turn off lights,
 - 2nd trigger, check if alarm is set to away, turn off security, wait, turn on security
 - Make this a mood, room specific, resettable no
- Snap Shot (Zoom)
 - Take picture with any surveillance camera, email them to email address
 - This can be used to quickly take a picture and send it to the homeowner via email, touch screen, or cell phone. Photos can utilize PTZ and zoom in.
 - This does not need to be a mood, unless you are planning on activating these events from the mood screen.
- Special Days
 - You can setup birthdays, holidays, etc.
 - Make this a scheduled announcement
- Individual Room Moods
 - Night Mood
 - Turn on lights to get ready for bed, turn on music, lower volume, wait, dim down lights, lower volume more
 - Can also check outside temperature to see if they need to turn on fan. Can adjust climate in room by outside temperature.
 - Make this a mood, room specific, resettable no
 - Reading Mood
 - Turn on lights at dim
 - Make this a mood, room specific, resettable no
 - Bedtime Mood
 - Turn down lights quicker than night mood. This will just dim lights and turn on music at low volume.
 - Make this a mood, room specific, resettable no
 - Relaxing/romantic Mood
 - Turn down lights, turn on music, lower volume, change station to relaxing music, wait, turn down lights a little more
 - Make this a mood, room specific, resettable no
 - TV Mood
 - Can put mood for watching TV if there is a TV in the room.
 - Lights on, music off, send IR commands
 - Make this a mood, room specific, resettable no
 - TV Night Mood
 - Lights dim, music off, send IR commands, wait, turn lights off
 - Make this a mood, room specific, resettable no
- Triggers
 - Garage Check
 - Make this a trigger
 - Security entrance delay
 - make touch screen navigate to security screen
 - Make this a trigger
 - Leaving in Morning
 - Turn on leaving lights, set security, wait, turn off all lights and audio

- Make this a trigger. This can be on an F button or Insteon button, or also be on the garage. If it is on the garage, it will automatically run the trigger when you leave the house.
- Coming Home Mood
 - Lights on, music on
 - This can be on the garage door, so when you get home it automatically runs the mood.
 - Make this a mood so you can use many triggers
- Climate Control
 - Turn climate down when you leave the house
 - This can also check the outside temperature to see if the temperature needs to go up or down.
 - This does not need to be a mood, unless planning to activate these events from the mood screen.
- Doorbell Picture Message
 - Take picture of doors and driveway, email, internal message, and text message to cell phone
 - This can just be a trigger
- Doorbell Light
 - Turn porch light on
 - This can just be a trigger
- Doorbell Video Switch
 - Switch all video sources to camera, wait, switch back to previous source
 - Set this up as a mood, independent, resettable no
- Touch Screen Camera Switch by Doorbell Press
 - Switch all touch screens to camera
 - This can just be a trigger
- Wireless Key Pad
 - Setup to run moods, etc
 - This can just be a trigger
- Alarm F Keys
 - Setup to run moods, etc
 - This can just be a trigger
- Power Outage
 - Setup to email and internal message when power is out and when it comes back on
 - This can just be a trigger
- Night Light
 - Hit a switch on keypad to run a night mood to go to the kitchen or bathroom
 - This can just be a trigger unless you are setting it up on a motion detector then it needs to be a mood.
- Door Opening Turns on Lights
 - This can be used to run home moods and away moods at certain times
- Cleaning Help Access
 - Garage open, turn off security, turn on lights, turn on music
 - The access will be restricted to time and day of week
- Security Vacation Mood to Emulate Occupancy
 - Turn on lights in certain area, wait, turn on more lights, wait, turn off lights
 - This can just be a trigger
- Alarm Sounding Send Message
 - Send pictures to email, internal, and text message
 - This can just be a trigger

- Motion Detector Triggers “Today is trash day” Audio Feedback
 - Audio feedback, wait (the wait is to wait and make sure it doesn’t happen every time you walk by the motion detector)
 - Make this a mood, independent, resettable no
- Door open & second trigger alarm set, run mood
 - This can run the home mood
 - This is helpful when you come home in the dark and the alarm is set to away, all the lights will illuminate when the door is opened.
- Occupancy
 - This can be used for bathrooms, kitchen, etc late at night
 - Make this a mood, independent, resettable yes
- Schedules
 - Trash Day
 - Audio feedback
 - Open Garage
 - Audio feedback, open garage
 - Turn on & off Outside Lights
 - Outside lights, etc
 - Wakeup
 - Turn on lights slowly, turn on music slowly, wait, audio feedback of data and outside temperature
 - Upgrade Touch screens daily
 - Check all touch screens for updates
 - **Important: make sure you set this up**

8.9 Activate XM Radio

For assistance please call 1-800-967-2346 or logon to <https://xmro-secure.xmradio.com/listenercare/login2.xm>.

If you already have an existing master account, you may add accounts to that account to combine/reduce XM fees.

9.0 Remotes

9.1 EyeOn Remote Setup

9.1.1 EyeOn Remote Basics

Notes: This product is a universal, learning remote control with 12 dedicated codes for a home automation controller, as indicated in the command table below. The majority of the keys will be used for universal functionality (CH+, CH-, etc) and/or have the commands learned into the remote.

This remote will allow for 20 different system codes, using the same command table, through a combination of key presses. The system code will be stored in EEPROM and not be affected when batteries are removed/replaced.

Command Table

Button Number	Button Name	Hex Code	Button Number	Button Name	Hex Code
1	POWER	UNV/LRN	29	VOL+	UNV/LRN
2	DVD	UNV/LRN	30	INPUT	UNV/LRN
3	AUX1	UNV/LRN	31	MENU	UNV/LRN
4	TV	UNV/LRN	32	CH+	UNV/LRN
5	DVD	UNV/LRN	33	VOL -	UNV/LRN
6	DVR	UNV/LRN	34	PREV	UNV/LRN
7	VCR	UNV/LRN	35	NEXT	UNV/LRN
8	CAM	UNV/LRN	36	CH-	UNV/LRN
9	1	UNV/LRN	37	PLAY/UP	UNV/LRN
10	2	UNV/LRN	38	REW/LEFT	UNV/LRN
11	3	UNV/LRN	39	FWD/ RIGHT	UNV/LRN
12	AUX2	UNV/LRN	40	PAUSE/ DOWN	UNV/LRN
13	4	UNV/LRN	41	EXIT	UNV/LRN
14	5	UNV/LRN	42	GUIDE	UNV/LRN
15	6	UNV/LRN	43	REC	UNV/LRN
16	AUX3	UNV/LRN	44	ENTER	UNV/LRN
17	7	UNV/LRN	45	MOODS 1	CAh
18	8	UNV/LRN	46	LIGHTS 1	CBh
19	9	UNV/LRN	47	TEMP UP	CCh
20	MUTE	UNV/LRN	48	VIDEO UP	CDh
21	SLEEP	UNV/LRN	49	MOODS 2	CEh
22	0	UNV/LRN	50	LIGHTS 2	CFh
23	FORMAT	UNV/LRN	51	TEMP DOWN	D0h
24	INFO	UNV/LRN	52	VIDEO DOWN	D1h
25	PIP ON/OFF	UNV/LRN	53	LIGHTS ALL	D2h

26	SWAP	UNV/LRN	54	LIGHTS ROOM	D3h
27	MOVE	UNV/LRN	55	SOUND ON/OFF	D4h
28	PDP	UNV/LRN	56	GARAGE	D5h

9.1.2 System Code Selection Procedure

Two buttons will be pressed for five seconds to change the system code. The LED will blink slowly three times to indicate that the system code has been changed.

Button Number	Button 1	Button Name	Button 2	Button Name	System Code
1	9	1	33	VOL-	B4h
2	9	1	34	PREV	B5h
3	9	1	35	NEXT	B6h
4	9	1	36	CH-	B7h
5	9	1	41	EXIT	B8h
6	9	1	42	GUIDE	B9h
7	9	1	43	REC	BAh
8	9	1	44	ENTER	BBh
9	9	1	45	MOODS1	BCh
10	9	1	46	LIGHTS1	BDh
11	9	1	47	TEMP UP	BEh
12	9	1	48	VIDEO UP	BFh
13	9	1	49	MOODS2	C0h
14	9	1	50	LIGHTS2	C1h
15	9	1	51	TEMP DN	C2h
16	9	1	52	VIDEO DN	C3h
17	9	1	53	LIGHT ALL	C4h
18	9	1	54	LIGHT RM	C5h
19	9	1	55	SOUND ON/OFF	C6h
20	9	1	56	GARAGE	C7h

9.1.3 EyeOn Remote Control Specifications

Model Number: FGSE56-HCI-01

Casing: SE56

Protocol: NEC

System Code: Customer requests unique System Code Range (B4h - C7h)

Repeat Code: Simple

9.2 EyeOn Remote Programming

Codes can be found in the next section, **Remote Codes**.

1. Code setup

1-1) Manual code setup

- Press and hold [Device] + [Mute] buttons until LED illuminates.
- Press 3 digits code numbers for specific device (please refer to code setup manual).
- Press [Enter] button to lock the code into memory. The LED will blink 3 times.

Example: To Select TV code 066.

- Press and hold [TV] + [Mute] buttons until LED illuminates.
- Press [0],[6],[6] .
- Press [Enter]

1-2) Manual Aux code setup

- Press and hold [Device] + [Mute] buttons until LED illuminates.
- Press 3 digits code numbers for specific device (please refer to code setup manual).
- Press [AUX1, AUX2 or AUX3] button to code lock code into memory. The LED will blink 3 times.

Example: To select TV code 066 to AUX1.

- Press and hold [TV] + [Mute] buttons until LED illuminates.
- Press [0], [6], [6].
- Press [AUX1, AUX2 or AUX3].

2) Auto code setup

* This method will find the brand automatically without the use of a library code number.

- Turn on the device (TV, VCR,...) that you want to control.
- Press and hold [Device] + [Mute] buttons until LED illuminates.
- Press and hold [CH+] button until device is turns off.
- As soon as device turns off, release the [CH+] button
- Press [Enter] button to lock the code into memory. The LED will blink 3 times.

The [CH+] button will transmit codes one at a time. If the device turns off but code is not selected properly, press [Ch-] button one to two times to step back to previous code.

* If you want to select an AUX device Press [AUX1, AUX2 or AUX3] instead of [Enter] button in the last step.



2. Code Read Back

* This function will indicate code number which you selected.

- Press and hold [Device] + [Info] buttons until the LED illuminates.
- Release the buttons pressed in step [1].
- Then LED will blink 3 times every 1seconds.
- First blinking LED indicates 100 digit of selected code.
- Second blinking LED indicate 10 digit of selected code
- Third blinking LED indicates 1 digit of selected code.
- Fast blinking means digit "0".

Example: If selected code number is "1 0 8 ", then LED will blink
[One time], [1second pause], [Fast blink], [1second pause], [8 blinks].

* If a code is found through the Auto scan method, this function can be used to document the selected code.

3. Learning Function

This function is for the learning and storing IR codes which are not supported in the standard universal library. The Hitcents remote and user remote should be held 1" from the IR LED at the front of the remote.

All buttons on the user remote should be pressed two times for learning each code into memory.

1) Learning sequence: This step is for memory data from the user's remote to Hitcents remote control.

- Press and hold [Device] and [Rec] button simultaneously for 3 seconds until LED illuminates.
- Press button on the Hitcents remote to be store learned code and the LED will blink one time.
- Press and release the button on the user remote to be learned. The Hitcents remote LED will blink slowly once.
- Press and release the button on the user remote to be learned. The LED will blink twice.
- To learn another button repeat steps 1-2 to 1-4 or press any [Device] button to exit learning mode.

Example: If you want to learn the VOLUME UP code to Hitcents remote TV volume up button.

1. Press and hold [TV] and [Rec] for 3 seconds until LED illuminates.
2. Press volume up button on Hitcents remote control.
3. Press volume up button on User's remote control. -> Blink Slowly Once
4. Press volume up button on User's remote control -> Blink Twice
5. Press TV:

* **During the learning process, the LED Hitcents remote may blink very quickly.** This means the transmitting signal is not in a valid range or the button was held down too long. If this situation occurs, please adjust the remote's angle, reduce/increase remote distance or try pressing the button faster.

2) Clear Learned Device: This function will clear All learned data on a selected device.

- Press and hold [Device] and [Exit] buttons for 3 seconds until LED illuminates.
- Press [All] Button.

3) Clear Learned Button: This function will clear a specific learned button on a specific device.

- Press and hold [Device] and [Exit] buttons until LED illuminates.
- Press the specific button to delete an existing learned code.
- To delete other buttons Repeat 3-2 or press any [Device] button to exit this mode.

4) Clear ALL Devices: This function clear all learned codes in all devices.

- Press and hold [Exit] + [All] until LED illuminates.
- All learned codes will be deleted when LED turns off.

5) Total Reset: This function will return the Hitcents remote to factory default status and clear ALL learned data.

- Press and hold [Exit] + [Enter] until LED illuminates.
- The remote will return to original factory default setting when the LED turns off.

9.2 Remote Codes

DVD Codes

Magnavox (Philips)	006	Liteon	085	Mitsubishi	008
LG	054	Zenith	070	Denon	001
Zenith	054	Proton	075	Gateway	069
Hitachi	014	Samsung	079	Sylvania	071
NAD	030	LG	044	Apex Digital	029
Onkyo	025	Zenith	044	Samsung	011
Harman/Kardon	027	Panasonic	023	Kenwood	033
MINTEK	060	JVC	047	Thomson	017
Gradiente	024	LG	047	Toshiba	055
Sony	012	GE	040	Panasonic	009
Samsung	074	Yamaha	051	Panasonic	037
JVC	065	Panasonic	059	Yamaha	037
LG	052	Marantz	026	Go Video	073
Zenith	052	Cyber home	077	Sharp	019
Magnavox (Philips)	046	Cyber home	082	LG	005
Philips (Magnavox)	046	JVC	064	KLH	032
Sylvania	057	JVC	062	KLH	015
Proceed	028	Cyber home	084	Harman/Kardon	034
Samsung	045	Toshiba	013	Sharp	016
Sony	021	Sharp	031	Onkyo	042
Tivo	056	Toshiba	050	Toshiba	042
Mitsubishi	036	ReplayTV	058	Sharp	035
Sony	041	JVC	004	Gradiente	018
Sony	061	Yamakawa	072	Magnavox (Philips)	007
JVC	063	Aiwa	081	Samsung	053
Polaroid	083	DVD-Video	020	Pioneer	010
Axon	078	Denon	048	GE	003
Sony	068	Apex Digital	022	ECA	049
Panasonic	043	Apex Digital	076	GE	049
Yamaha	043	Daewoo	080	Thomson	049
Pioneer	039	Pioneer	038	GE	002
Sony	067	Sony	066		
		Liteon	086		

TV Codes

Curtis Mathes	152	Broksonic	011	Kurazai	062
Emerson	152	Emerson	011	Lodgenet	062
Samsung	152	Admiral	067	Logik	062
Sharp	152	LXI	067	Majestic	062
Magnavox (Philips)	073	Montgomery Ward	067	Memorex	062
Philips (Magnavox)	073	Sharp	067	Montgomery Ward	062
Amark	007	Signature 2000	067	Signature 2000	062
Coronado	007	Samsung	016	Teknika	062
Crown	007	Sears	016	Telerent	062
Emerson	007	Toshiba	016	XR-1000	062
Gibralta	007	Panasonic	180	Anam	093
Goldstar(LG)	007	ViewSonic	179	Emerson	038
Hitachi	007	Daewoo	101	Funai	025
Kmc	007	NEC	101	Gibralta	025
KTV	007	Daewoo	130	Zenith	025
LG (Goldstar)	007	Amark	086	Adventura	004
Magnavox (Philips)	007	Megatron	086	Funai	004
Montgomery Ward	007	ESA	190	Symphonic	004
Philco	007	LXI	035	Zenith	004
Philips (Magnavox)	007	Sharp	035	Panasonic	018
Portland	007	Dell	187	GE	053
Samsung	007	Proview	195	Panasonic	053
Sears	007	Sharp	096	RCA	053
Sharp	007	GE	019	Emerson	144
Signature 2000	007	Panasonic	019	Sharp	166
Teknika	007	Quasar	019	Aiwa	135
Telerent	007	Tatung	019	Tevion	168
GE	136	NEC	023	Anam	120
GE	032	Sharp	023	Emerson	149
Emerson	139	Advent	186	Admiral	061
Elektra	002	Proton	193	Curtis Mathes	061
Sanyo	002	Akai	209	GE	061
Sears	002	Fujitsu	205	RCA	061
JVC	143	APEX	043	GE	015
Magnavox (Philips)	143	Sears	043	Zenith	015
Philips (Magnavox)	143	Toshiba	043	GE	055
Fisher	010	Zenith	034	Proscan	055
Jc Penney	010	Panasonic	063	RCA	055
Memorex	010	Panasonic	024	JVC	147
Sanyo	010	GE	151	Emerson	160
Sears	010	Samsung	151	GE	161
Orion	036	JC Penney	069	RCA	072
Daewoo	108	Sears	069	RCA	171
Emerson	108	Toshiba	069	Sansui	174
Sylvania	108	Sansui	175	Hyundai	189
Orion	078	Sylvania	202	Zenith	181
APEX	029	GE	165	Audio Vox	201
Toshiba	029	Emerson	169	Aiwa	207
Samsung	129	Admiral	062	Samsung	021
Sony	150	Bell & Howell	062	Daewoo	042
Sharp	009	Citizen	062	Zenith	042
		Curtis Mathes	062	Orion	013

Pioneer	046	Montgomery Ward	081	GE	142
MGA/Mitsubishi	156	Philco	081	JVC	142
Sanyo	133	Philips (Magnavox)	081	Memorex	112
Magnavox (Philips)	097	Sylvania	081	Tera	127
Philips (Magnavox)	097	Magnavox (Philips)	001	Memorex	163
Jensen	087	Montgomery Ward	001	Zenith	163
Sharp	140	Philco	001	Samsung	148
Candle	027	Philips (Magnavox)	001	GE	164
Citizen	027	Sylvania	001	Zenith	164
Daewoo	027	Teknika	001	Magnavox (Philips)	162
GE	027	SONY	154	Philips (Magnavox)	162
Gibralta	027	Magnavox (Philips)	014	sylvania	173
Goldstar(LG)	027	Philips (Magnavox)	014	Inkel	075
Hitachi	027	Pilot	014	Proscan	082
JC Penney	027	Hitachi	098	RCA	082
LG (Goldstar)	027	Belcor	041	Samsung	080
Luxman	027	Brokwood	041	MGA/Mitsubishi	158
Magnavox (Philips)	027	Concerto	041	Hitachi	085
MGA/Mitsubishi	027	Daewoo	041	GE	031
NEC	027	Daytron	041	Gibralta	031
Philco	027	Dumont	041	Goldstar(LG)	031
Philips (Magnavox)	027	Electro Home	041	LG (Goldstar)	031
Portland	027	Envision	041	Magnavox (Philips)	031
RCA	027	GE	041	Memorex	031
Sears	027	Gibralta	041	MGA/Mitsubishi	031
Sylvania	027	Goldstar(LG)	041	NEC	031
TechWood	027	Hall Mark	041	Philips (Magnavox)	031
Teknika	027	JC Penney	041	Proton	031
TMK	027	Kawasho	041	Sampo	031
Universal	027	LG (Goldstar)	041	Samsung	031
VidTech	027	Luxman	041	Scott	031
Wards	027	Magnavox (Philips)	041	Sylvania	031
Yamaha	027	MGA/Mitsubishi	041	TMK	031
MGA/Mitsubishi	157	Philips (Magnavox)	041	Wards	031
MGA/Mitsubishi	157	Pilot	041	York	031
Daewoo	090	Pulsar	041	Samsung	119
Sylvania	192	Radio Shack	041	Insignia	197
Advent	176	Hitachi	049	Fujitsu	196
Daewoo	102	JVC	077	Recent	208
Daewoo	114	Emerson	131	Konka	183
Daewoo	092	GE	131	Orion	045
RCA	022	Daewoo	118	GE	037
Daewoo	017	Goldstar(LG)	124	Candle	052
Emerson	017	LG (Goldstar)	124	Citizen	052
Orion	017	Sony	050	Magnavox (Philips)	052
Apex	178	Montgomery Ward	057	Philco	052
Gateway	177	Realistic	057	Philips (Magnavox)	052
Insignia	188	Sharp	057	Soundesign	052
Tatung	184	Planar	210	Sylvania	052
Sceptre	204	KTV	030	Teknika	052
Go Video	182	Zenith	138	GE	005
Proton	203	Magnavox (Philips)	068	JC Penney	005
Magnavox (Philips)	081	Philips (Magnavox)	068	Magnavox (Philips)	005

Philips (Magnavox)	005	MGA/Mitsubishi	003	White Westinghouse	146
Sylvania	005	Samsung	003	Tevion	170
Daewoo	039	Sylvania	003	MGA/Mitsubishi	172
Orion	047	Daewoo	091	Akai	198
Proton	126	Anam	125	Sony	066
MGA/Mitsubishi	159	Centurion	044	Sharp	064
Emerson	145	Curtis Mathes	044	Akai	065
Proton	128	Daytron	044	Aoc	065
MGA/Mitsubishi	141	Gibralta	044	Emerson	065
Sharp	141	Goldstar(LG)	044	Gibralta	065
GE	137	LG (Goldstar)	044	Goldstar (LG)	065
Supre-Macy	071	Marantz	044	JC Penney	065
White Westinghouse	185	MGA/Mitsubishi	044	KTV	065
Centurion	051	Montgomery Ward	044	LG (Goldstar)	065
Concerto	051	NEC	044	Marantz	065
Daewoo	051	Sampo	044	MGA/Mitsubishi	065
Daytron	051	Samsung	044	Montgomery Ward	065
Electro Home	051	Scott	044	Philco	065
Envision	051	Signature 2000	044	RCA	065
GE	051	Sylvania	044	Sanyo	104
Gibralta	051	York	044	Daewoo	121
Hall Mark	051	MGA/Mitsubishi	084	Magnavox (Philips)	153
Hitachi	051	Philips (Magnavox)	199	Philips (Magnavox)	153
JC Penney	051	Initial	206	Samsung	153
Kawasho	051	Mintek	206	Pioneer	103
Luxman	051	Magnavox (Philips)	206	Admiral	058
MGA/Mitsubishi	051	NEC	200	Bell & Howell	058
NORCENT	191	Marantz	076	Citizen	058
JVC	132	MGA/Mitsubishi	076	Curtis Mathes	058
Magnavox (Philips)	026	Daewoo	040	Funai	058
Philips (Magnavox)	026	Pioneer	056	Kurazai	058
Sylvania	026	Anam	134	Lodgenet	058
Hitachi	100	Craig	134	Logik	058
Hitachi	083	Anam	111	Majestic	058
JVC	048	Audio Vox	111	Memorex	058
GE	070	Citizen	059	Montgomery Ward	058
Jc Penney	070	Gibralta	059	Signature 2000	058
Universal	070	Goldstar(LG)	059	White Westinghouse	058
Fisher	028	Grundig	059	Anam	089
Sanyo	028	KTV	059	Contec	020
Sears	028	LG (Goldstar)	059	Samsung	020
Gibralta	060	Pilot	059	MGA/Mitsubishi	155
Goldstar(LG)	060	Totevision	059	Broksonic	054
LG (Goldstar)	060	Anam	088	Emerson	054
Daewoo	123	Emerson	079	Amstrad	006
Daewoo	094	Funai	079	Funai	006
Centurion	003	Realistic	079	LXI	006
Curtis Mathes	003	Scott	079	Squareview	006
Daytron	003	Teknika	079	Sylvania	006
Gibralta	003	Emerson	012	Symphonic	006
Goldstar(LG)	003	Realistic	012	Emerson	110
LG (Goldstar)	003	Westing House	194	Orion	033
Marantz	003	Emerson	146	Emerson	008

VCR Codes

Orion	065	Daewoo	116	Pioneer	045
Sylvania	065	Broksonic	064	Panasonic	099
Sylvania	074	Emerson	064	Montgomery Ward	037
Audio Dynamics	044	Akai	021	RCA	037
Colortyme	044	Samsung	021	Signature 2000	037
Curtis Mathes	044	Citizen	060	Magnavox (Philips)	036
Dbx	044	Curtis Mathes	060	Marantz	036
Harman/Kardon	044	Goldstar (LG)	060	Philco	036
Jc Penney	044	JVC	060	Philips (Magnavox)	036
Marantz	044	Kenwood	060	Sylvania	036
NEC	044	LG (Goldstar)	060	Memorex	110
Vector Research	044	Marantz	060	Hitachi	046
Video Concepts	044	Wards	060	JC Penney	046
Yamaha	044	JVC	095	Pentax	046
Citizen	002	Mitsubishi	023	Pioneer	046
Emerson	002	Fisher	015	RCA	046
Goldstar(LG)	002	Sears	015	Sears	046
LG (Goldstar)	002	Toshiba	015	Toshiba	046
LXI	002	Citizen	006	Memorex	104
Marta	002	Daewoo	006	Montgomery Ward	062
Memorex	002	Emerson	006	Signature 2000	062
Sears	002	Scott	006	Fisher	052
Tashiko	002	Toshiba	006	Toshiba	052
Teknika	002	Zenith	119	Sansui	093
Totevision	002	Akai	098	GE	027
Wards	002	Samsung	098	Montgomery Ward	027
Emerson	049	Samsung	111	Proscan	027
Orion	049	Sony	032	RCA	027
Emerson	022	Panasonic	118	Signature 2000	027
Orion	022	Sony	035	GE	041
Orion	068	Zenith	035	Proscan	041
Akai	103	Canon	008	RCA	041
NEC	070	Curtis Mathes	008	NEC	071
Bell & Howell	024	Emerson	008	Emerson	107
Fisher	024	GE	008	Go Video	019
Sanyo	024	Instant Replay	008	Akai	092
Logik	042	JC Penney	008	Go Video	063
Multitech	042	JCL	008	Emerson	040
Sansui	042	Magnavox (Philips)	008	Broksonic	048
Scott	042	Marantz	008	Daytron	055
Shintom	042	Panasonic	008	Go Video	043
XR-1000	042	Philco	008	Matsui	094
RCA	016	Philips (Magnavox)	008	Broksonic	053
Sylvania	016	RCA	008	Teknika	053
Emerson	033	Sylvania	008	Craig	030
Daewoo	058	Technics	008	Fisher	030
Daytron	058	Admiral	014	Memorex	030
Portland	058	Montgomery Ward	014	Realistic	030
Akai	011	Realistic	014	Sanyo	030
Akai	051	Sharp	014	Sears	030
Emerson	051	Signature 2000	014	Canon	105
		Wards	014	Curtis Mathes	013
		Sony	050	Panasonic	013

Quasar	013	Kenwood	007
JVC	004	NEC	007
Kenwood	004	Tatung	007
NEC	004	Teac	007
Pioneer	004	Yamaha	007
Sansui	004	Mitsubishi	029
Zenith	004	Daewoo	114
JVC	038	Sanyo	114
Zenith	038	Emerson	003
Zenith	018	Scott	003
Sylvania	117	Daewoo	012
Emerson	101	Emerson	109
Orion	067	Daewoo	010
Aiwa	106	Broksonic	009
Dynatech	106	Emerson	009
Emerson	106	Bell & Howell	005
Funai	106	Fisher	005
Hitachi	106	JC Penney	005
Kenwood	106	JVC	005
Lloyd	106	Kenwood	005
LXI	106	Marantz	005
Magnavox (Philips)	106	Memorex	005
Memorex	106	NEC	005
MTC	106	Quartz	005
Multitech	106	Realistic	005
Philco	106	Sanyo	005
Philips (Magnavox)	106	Sears	005
RCA	106	Tandy	005
Realistic	106	Yamaha	005
Soundesign	106	Citizen	028
Sylvania	106	Craig	028
Symphonic	106	GE	028
Tandy	106	JC Penney	028
Teac	106	Marantz	028
Teknika	106	MTC	028
Thomas	106	Multitech	028
Video Concepts	106	RCA	028
Wards	106	Totevision	028
Yamaha	106	Unitech	028
Zenith	106	Wards	028
Samsung	108		
Samsung	039		
Admiral	056		
Sharp	056		
Quartz	090		
Orion	066		
JVC	102		
Daewoo	057		
Emerson	091		
TMK	091		
Audio Dynamics	007		
Dbx	007		
JVC	007		

10.0 EyeOn Setup Check List

- ☐ Test All Devices
- ☐ Test All Audio in each room, and all sources
- ☐ Test All Tuners (FM 107.5 & XM 22)
- ☐ Test Video Source in rooms and each output. Check left/right speakers & Quality
- ☐ Check all Climate for temperature change and room temperature change
- ☐ Test Lighting in each room, test all lights and all commands
- ☐ Test doorbells, try different doorbells, check sound levels
- ☐ Motion Detection (Check all for sensitivity) (Check Names on Security Log) *set alarm on stay and away and check all inside and outside motions.
- ☐ Door Sensors (Wireless) (Check Names on Security Log)
- ☐ Set Alarm, Sound Alarm, Fire Alarm, and Power Outage
- ☐ Test Security System from screen
- ☐ Test intercom, speaker and mic on each screen and announcement. Test from every touch screen to every Announcement room.
- ☐ Check Touch Screen for Screen off and Screen On. Make sure it turn the power off on the computer
- ☐ Set presets on all 5 presets from the web base screen.
- ☐ Check lights to make sure they are linked right and run the Test light status program
- ☐ Check room name, light name, etc to make sure they are the correct length and fit.
- ☐ Test all IR ports
- ☐ Test all IR send
- ☐ Test Wireless Strength
- ☐ Test Remotes
- ☐ Setup Schedule/Moods/Triggers and Test
- ☐ Get stylist pens for Touch Screen.
- ☐ Put up EyeOn signs in front yard
- ☐ Pull cable test to make sure they do not get unplugged